

FIG. 1

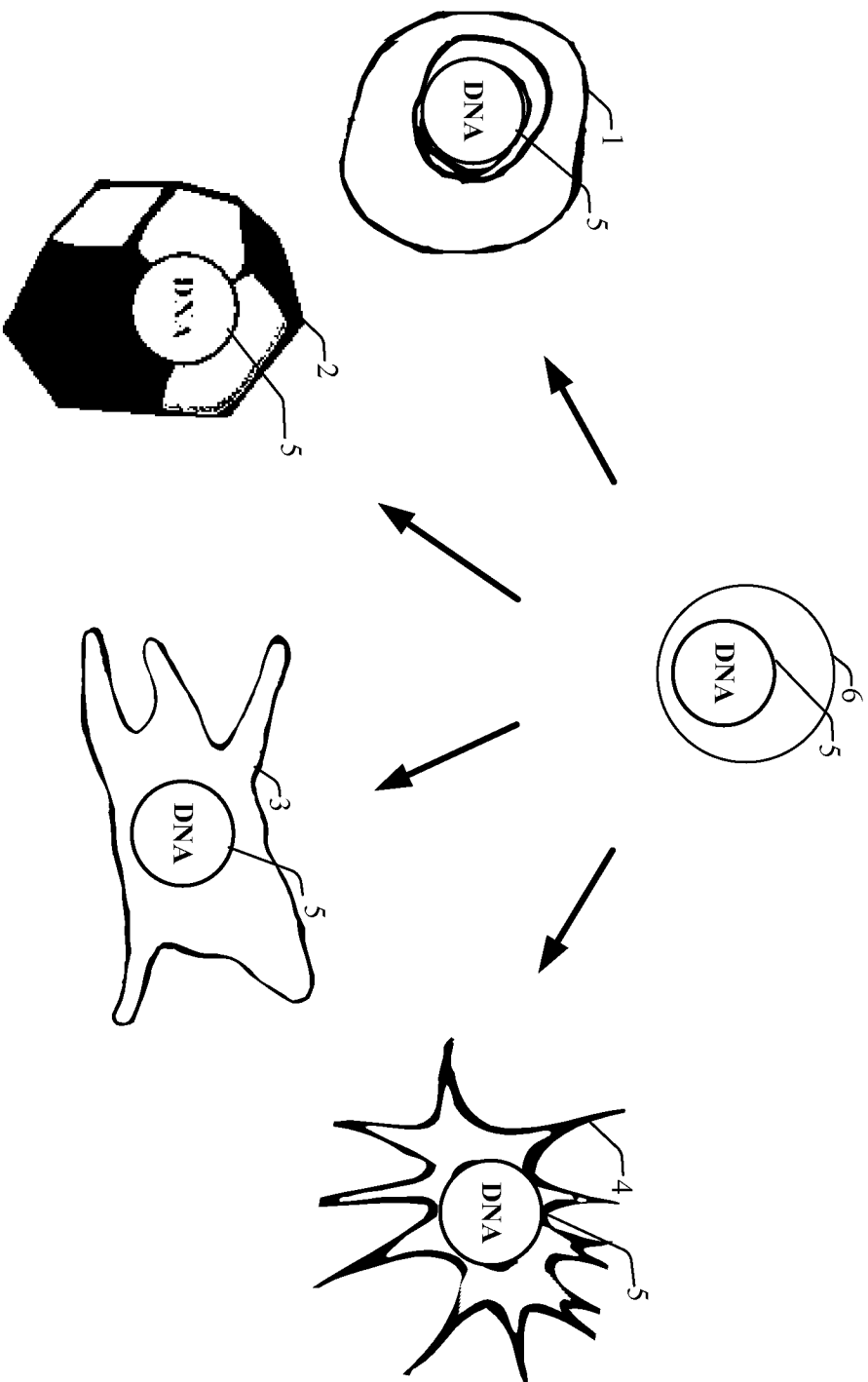


FIG. 2A

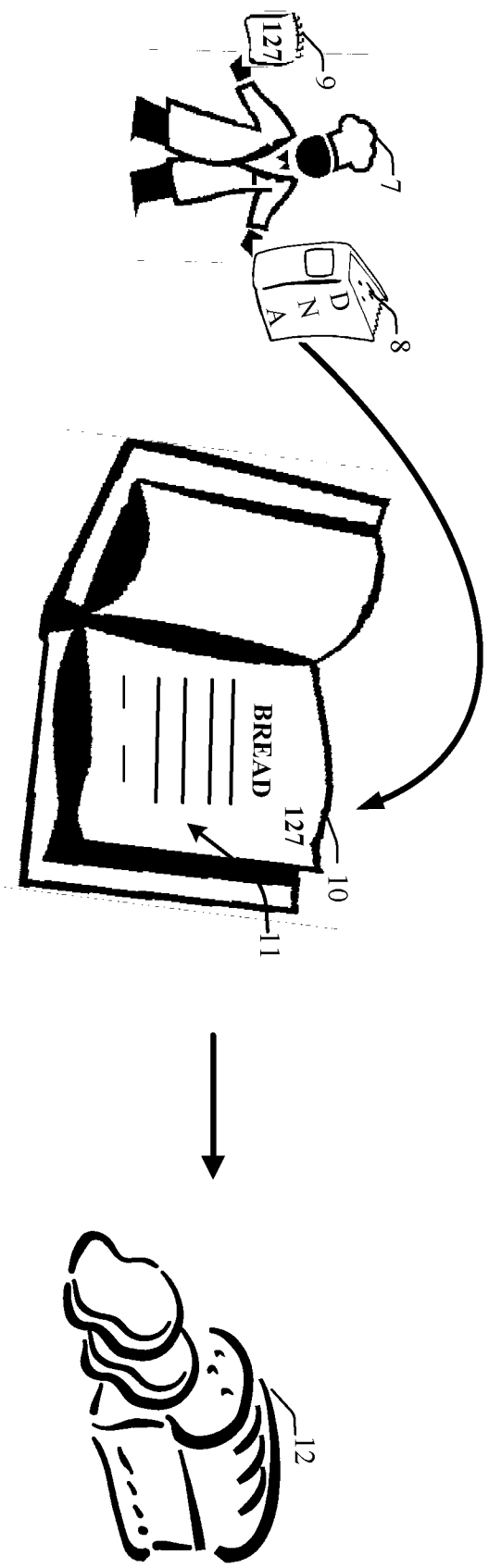


FIG. 2B

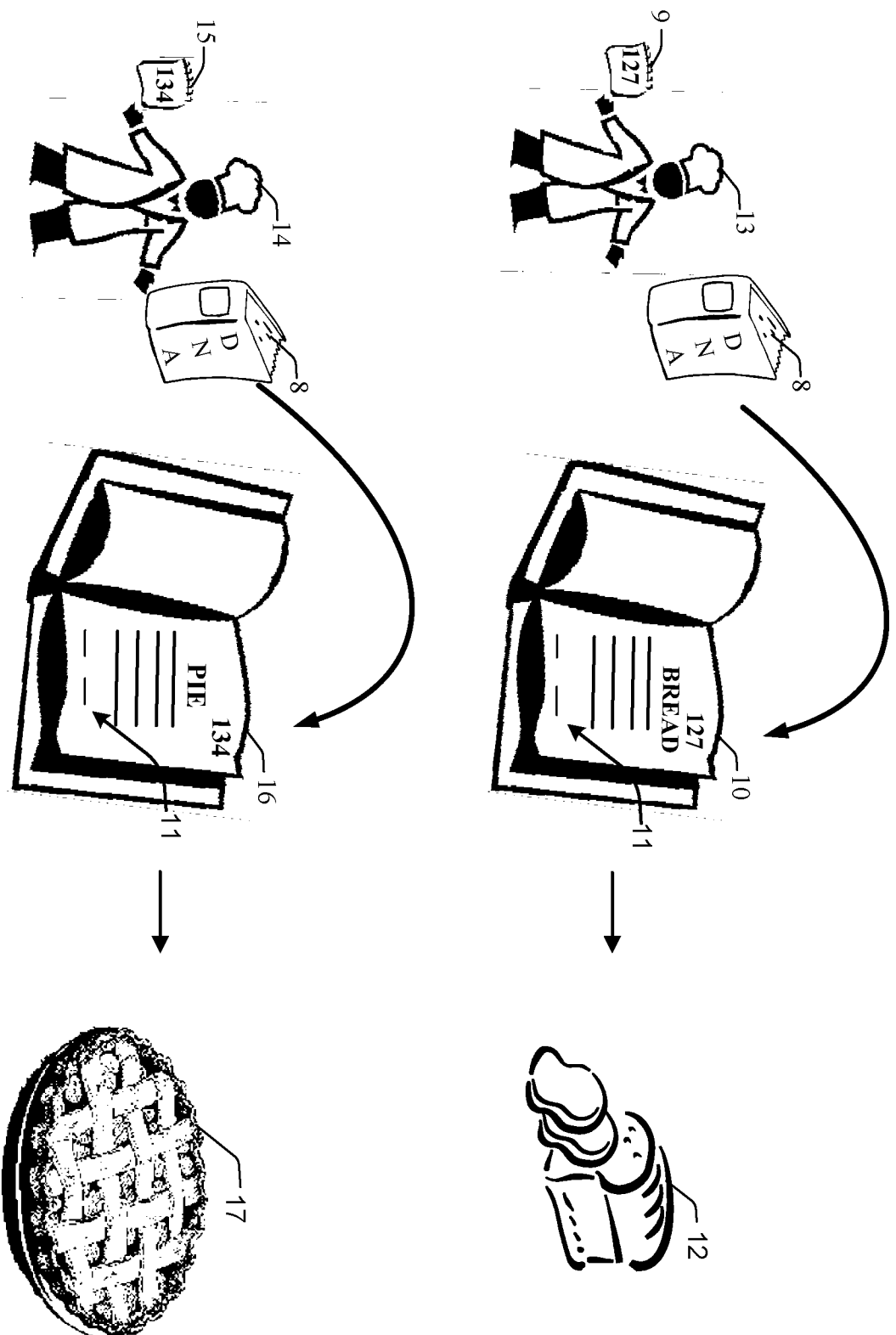


FIG. 3

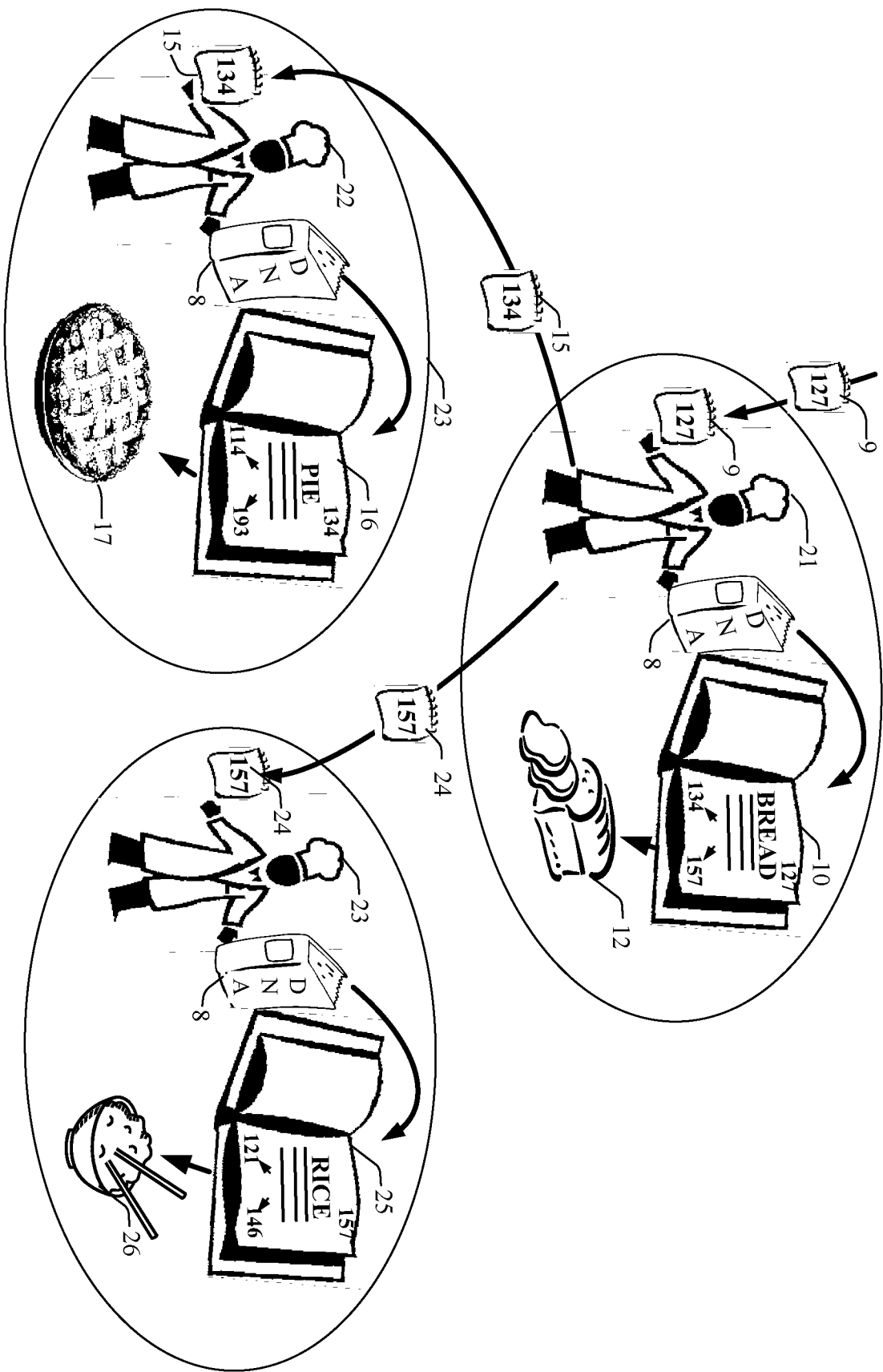


FIG. 4

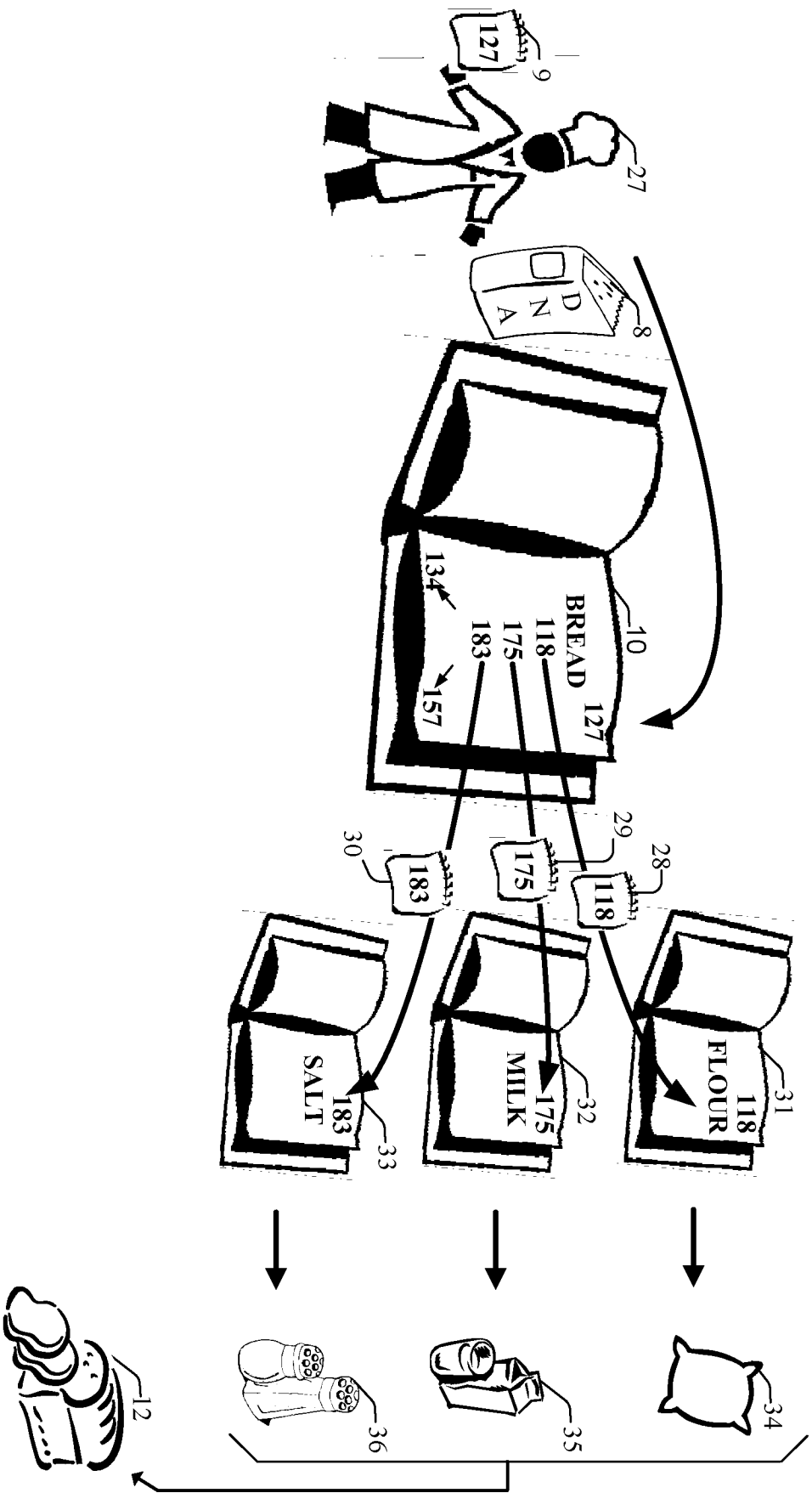
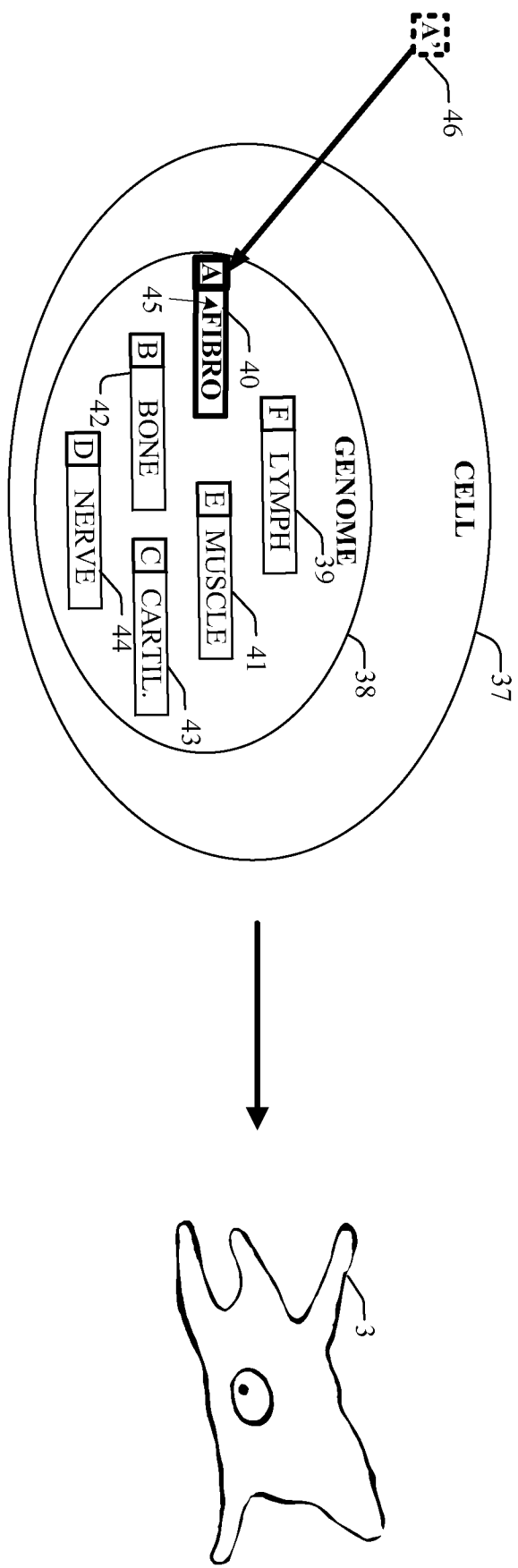


FIG. 5A



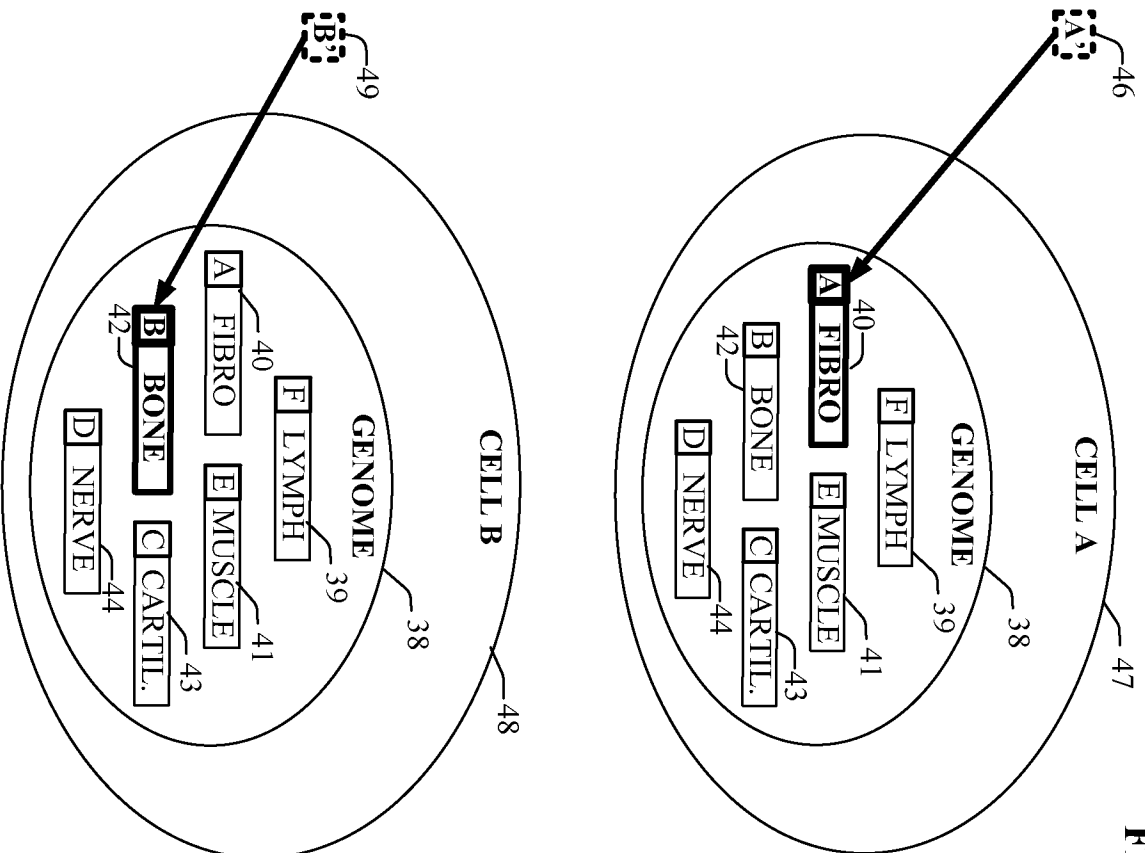


FIG. 5B

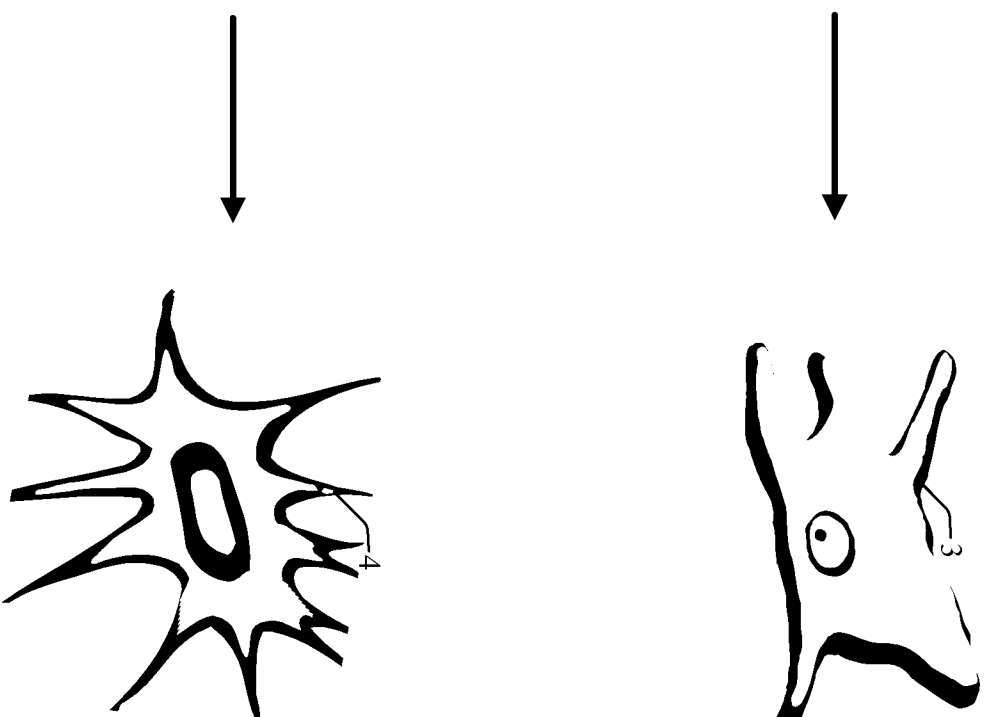
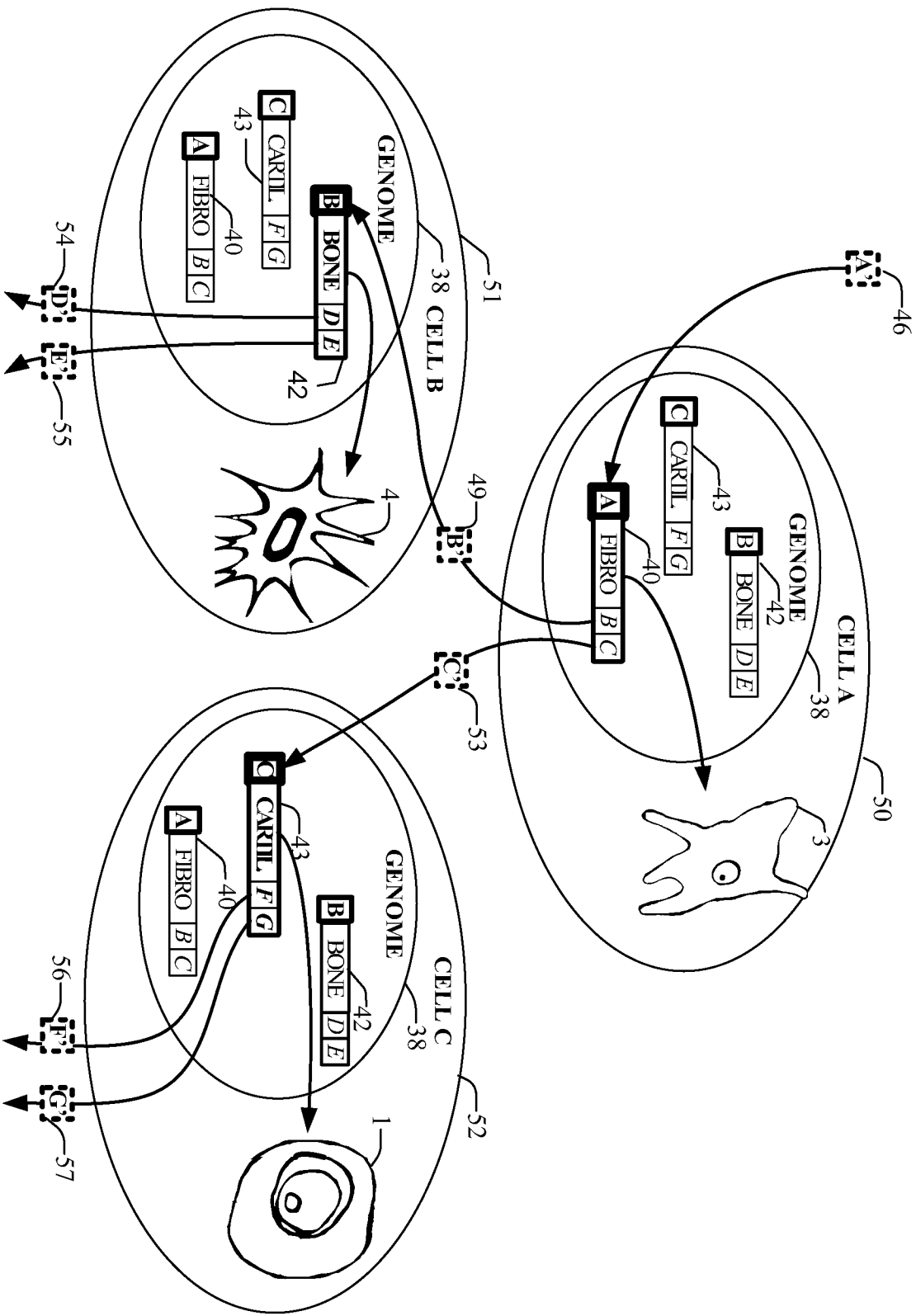


FIG. 6



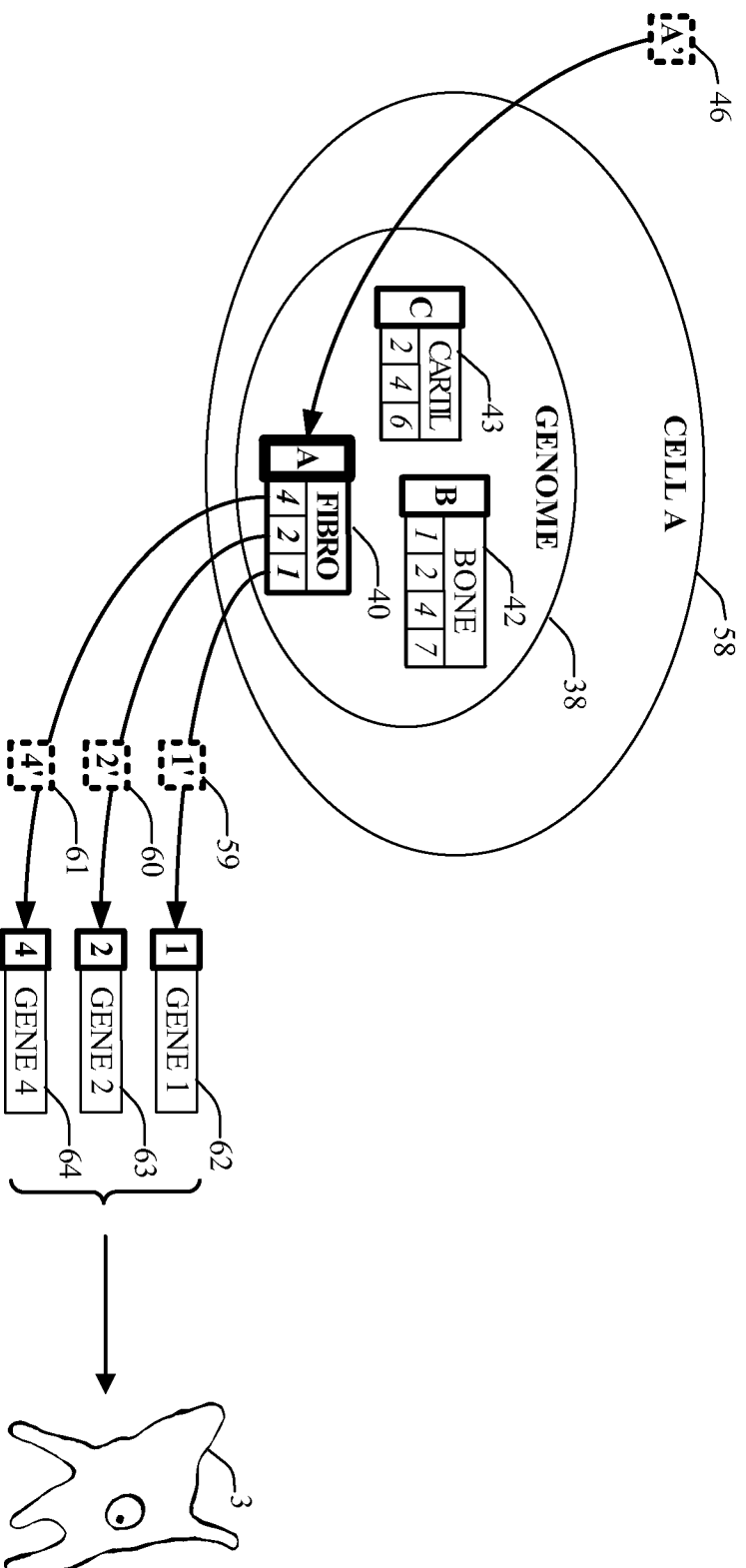


FIG. 7

FIG. 8

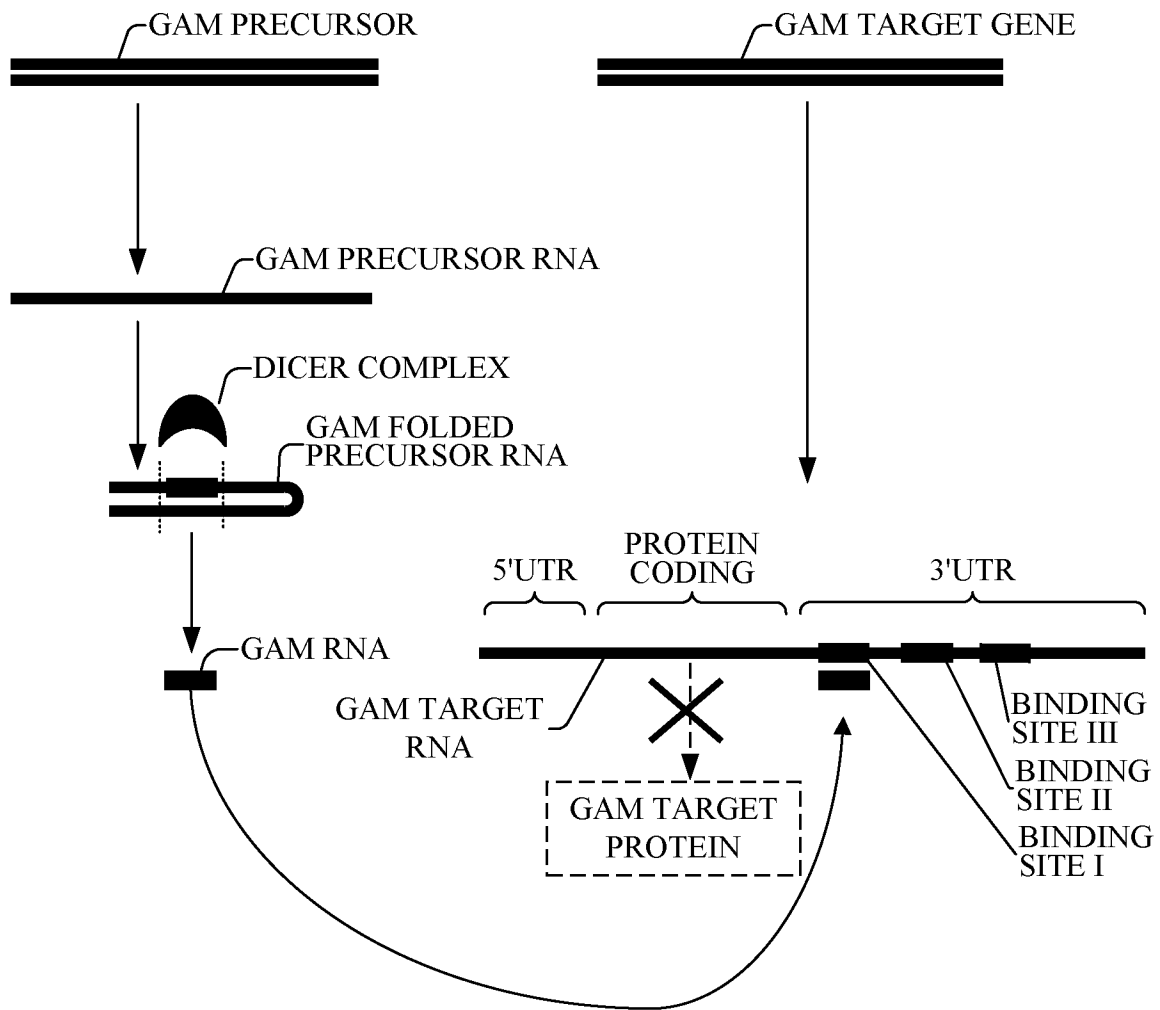


FIG. 9

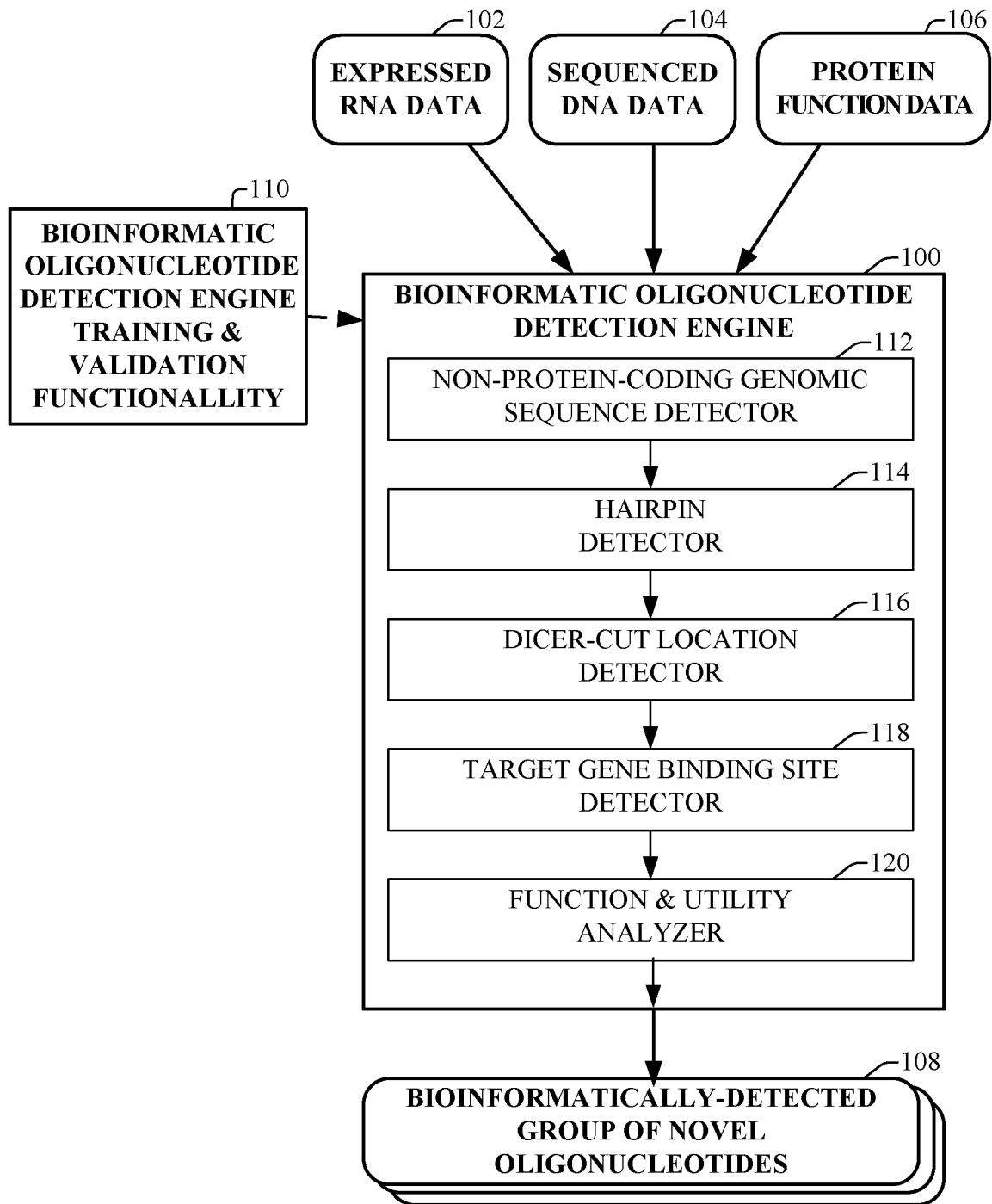


FIG. 10

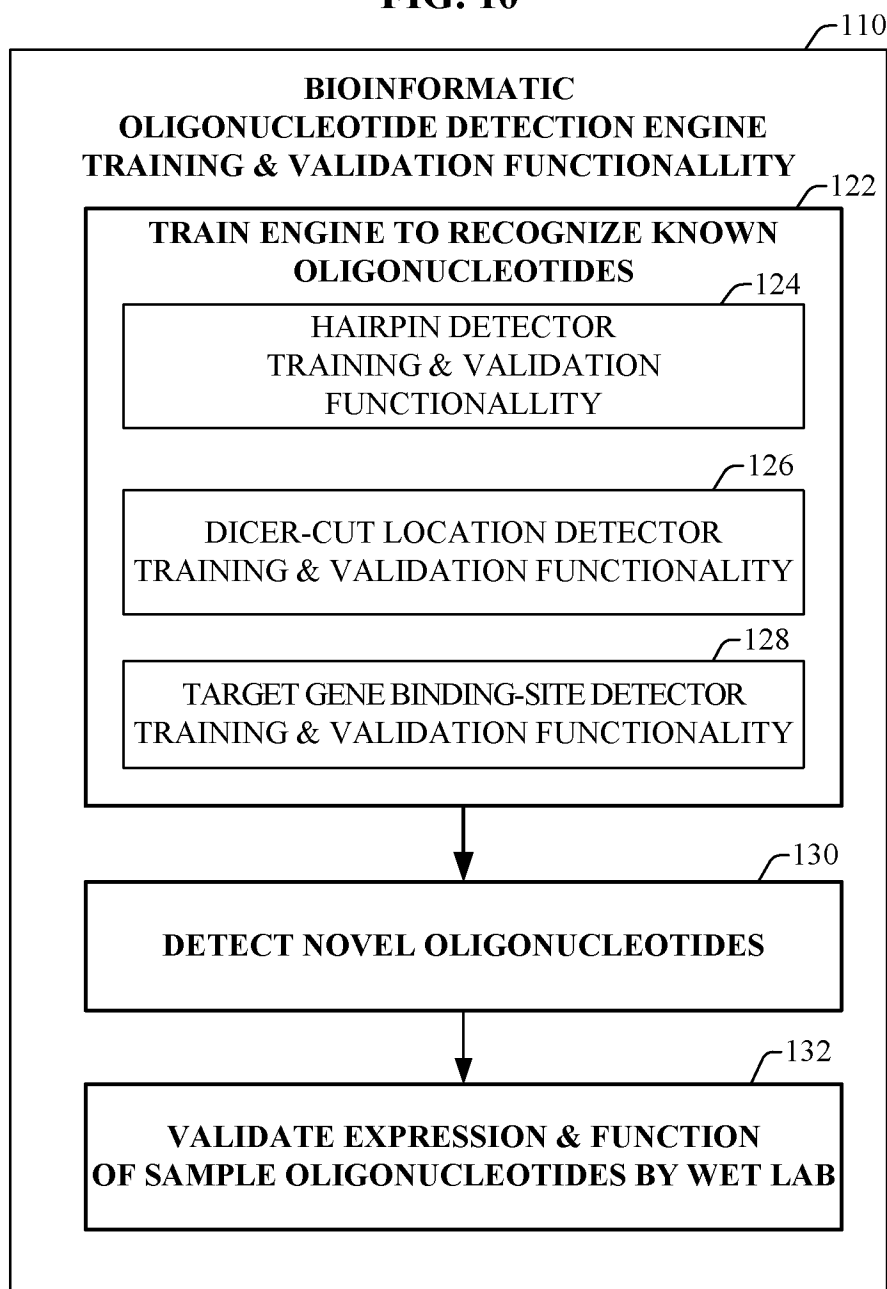


FIG. 11A

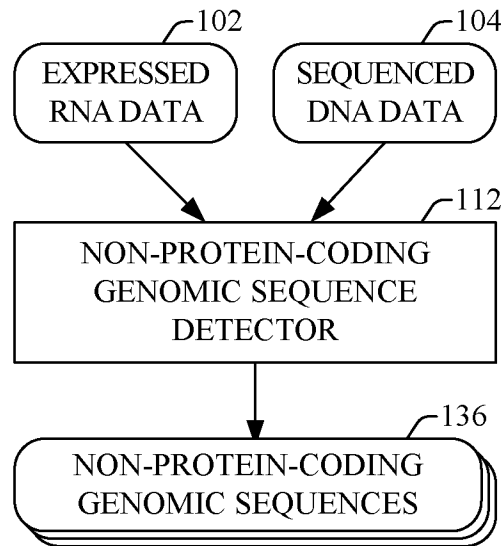


FIG. 11B

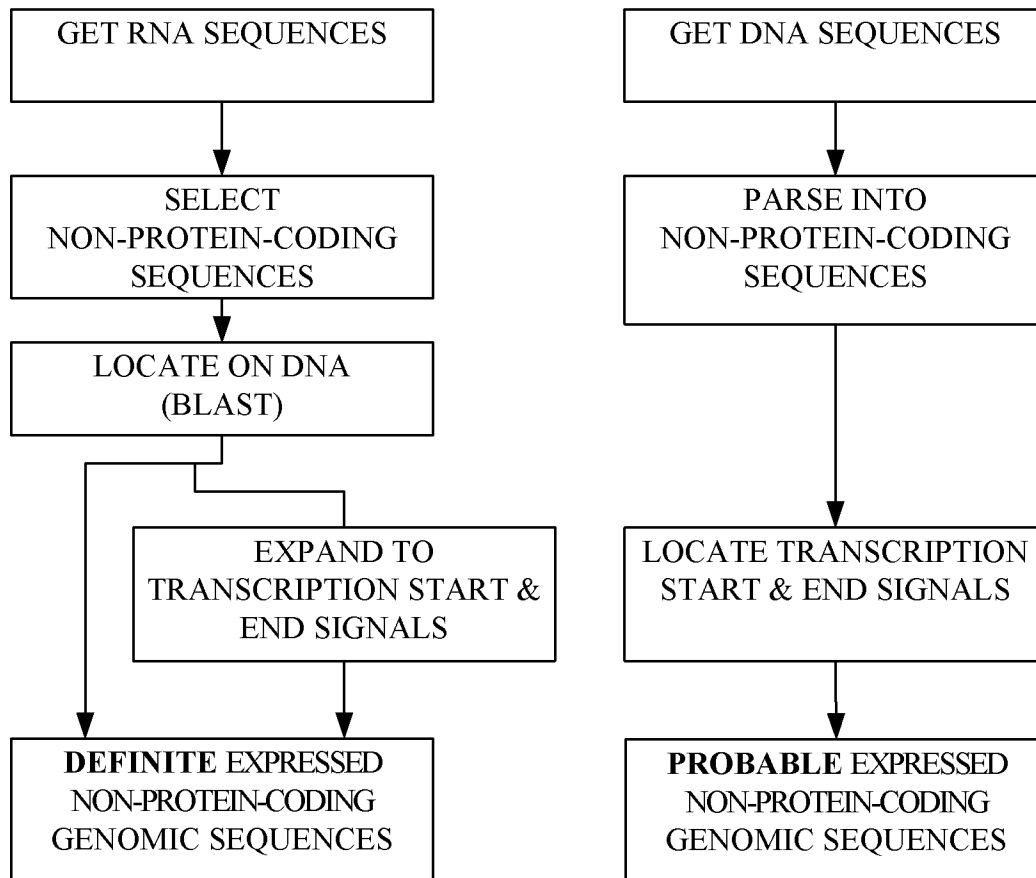


FIG. 12A

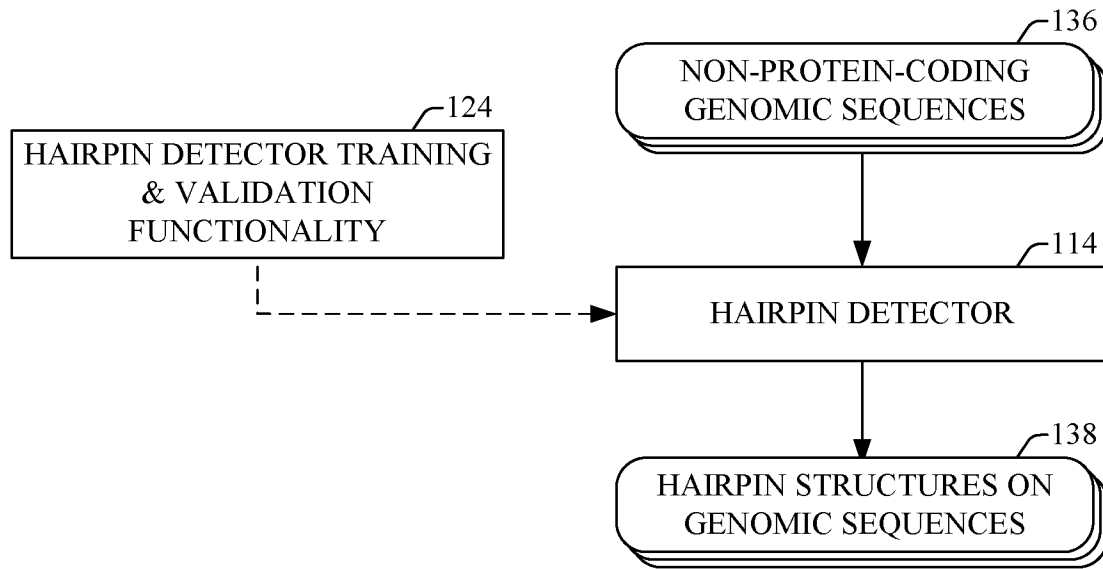


FIG. 12B

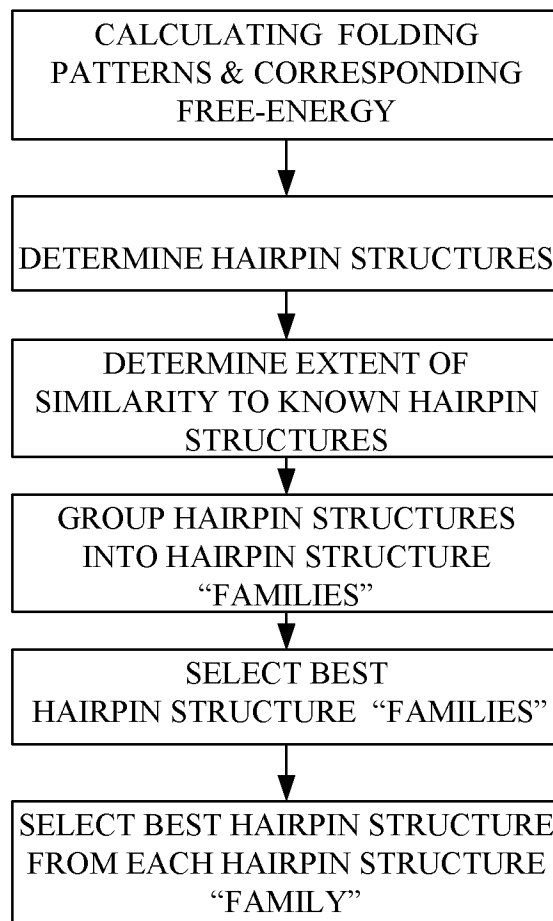


FIG. 13A

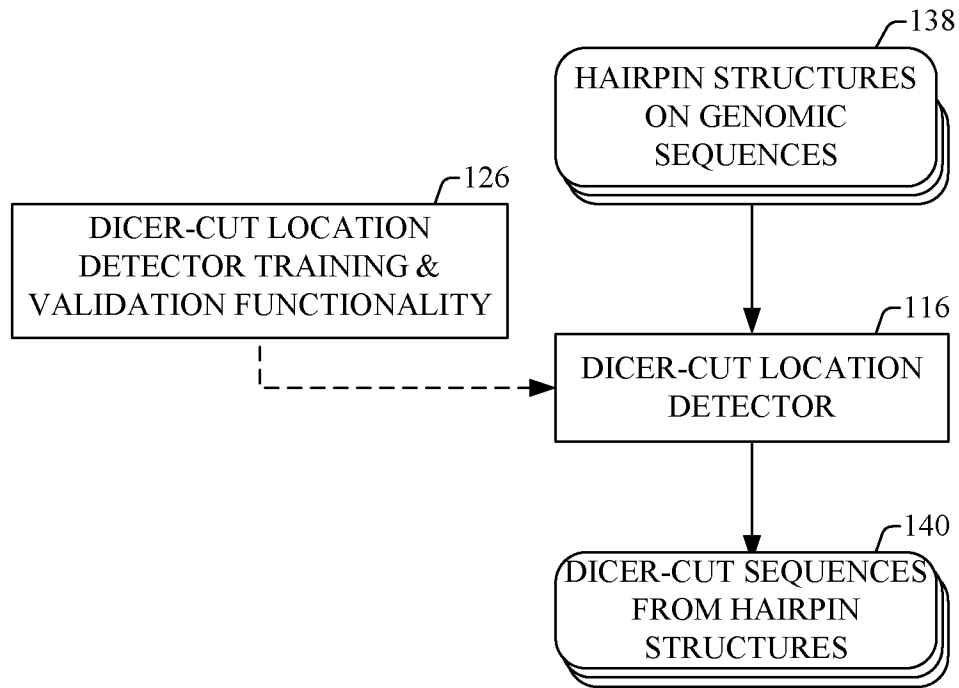


FIG. 13B

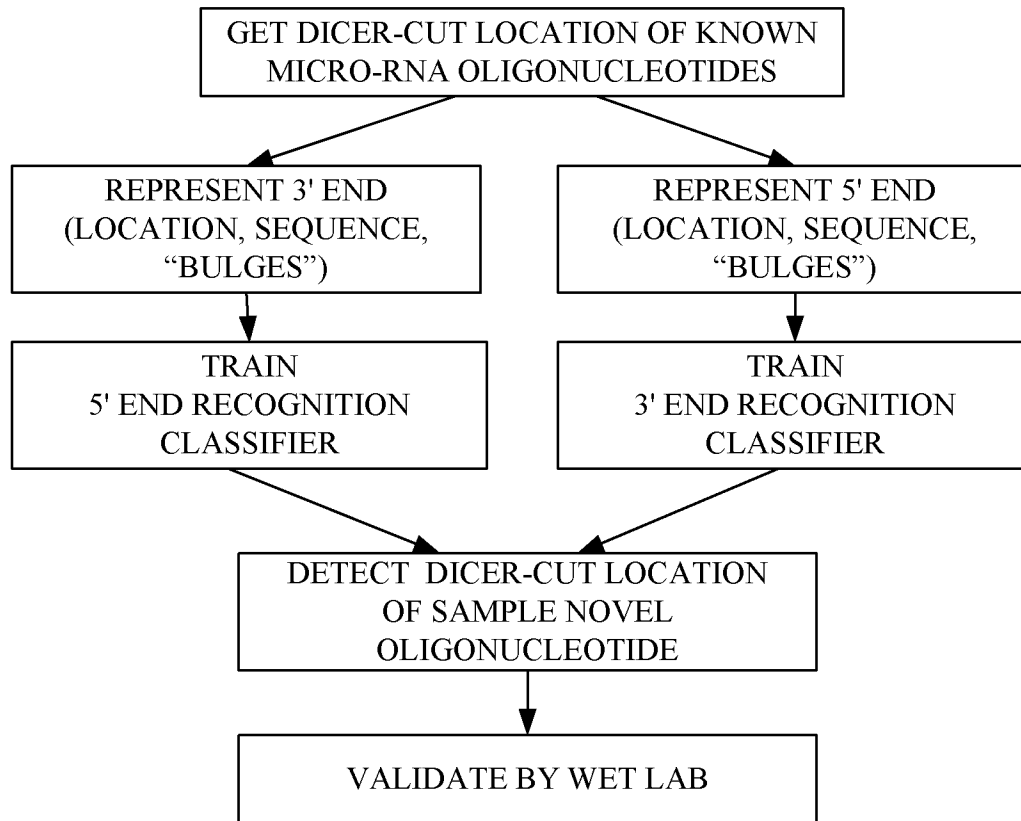


FIG. 13C

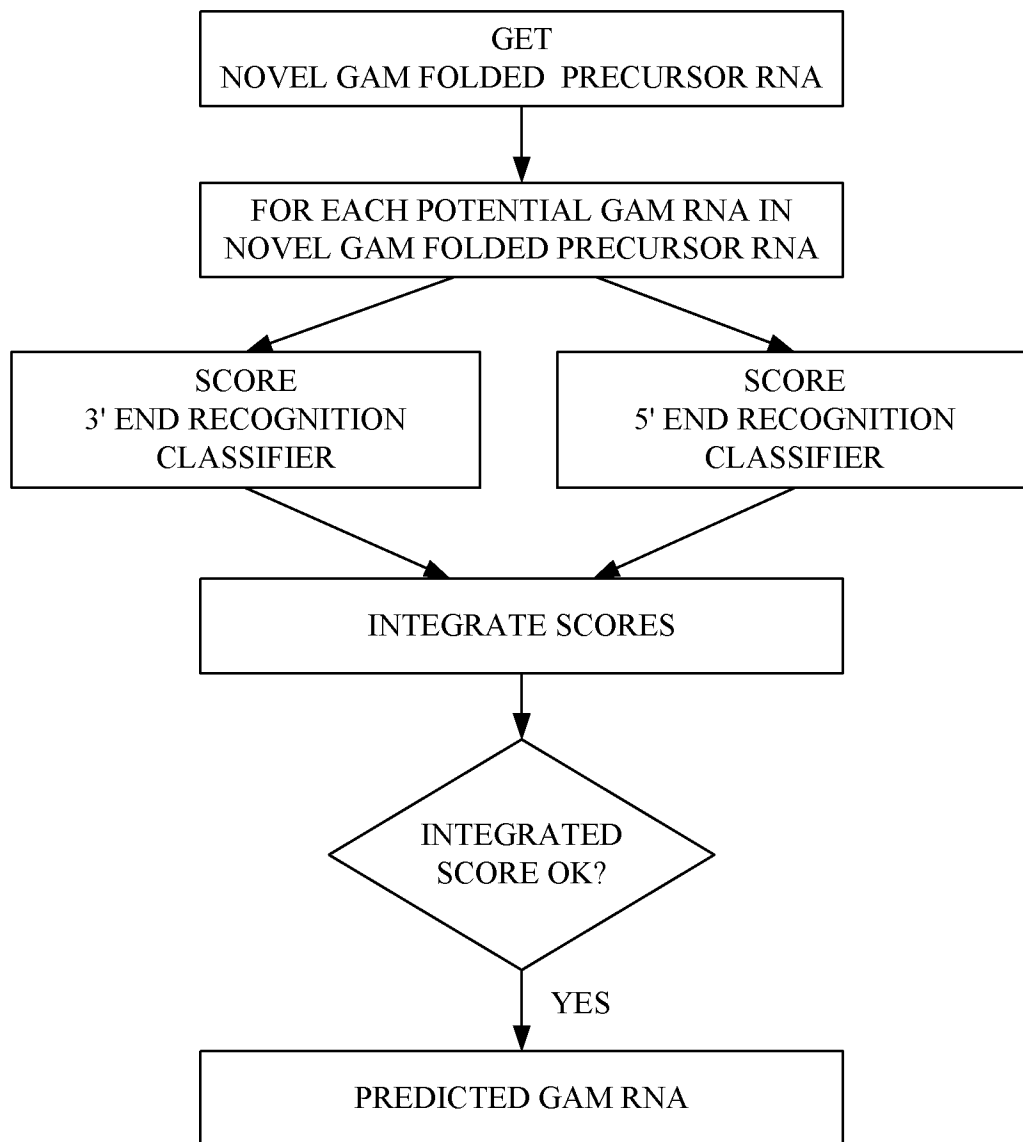


FIG. 14A

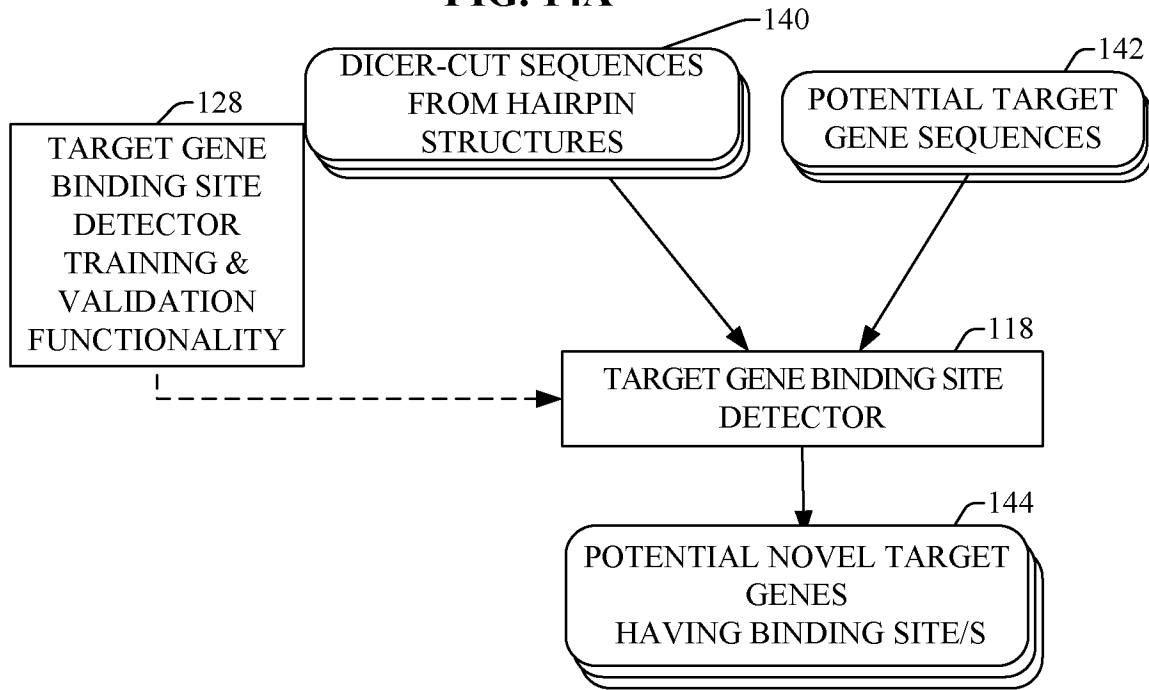


FIG. 14B

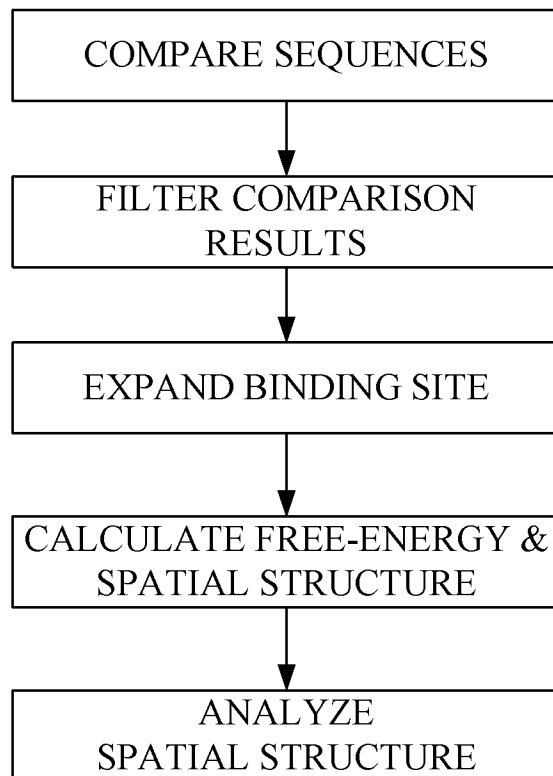


FIG. 15

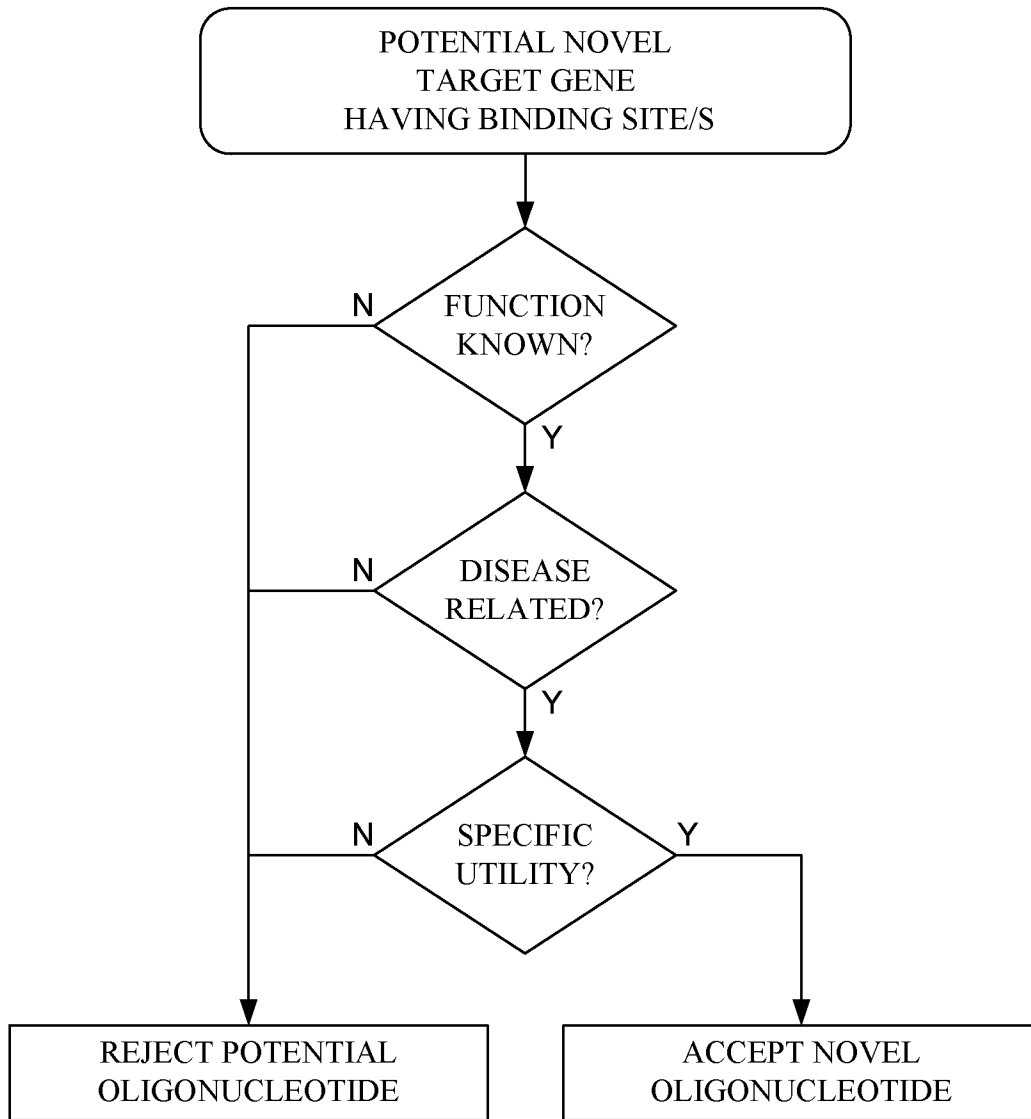


FIG. 16

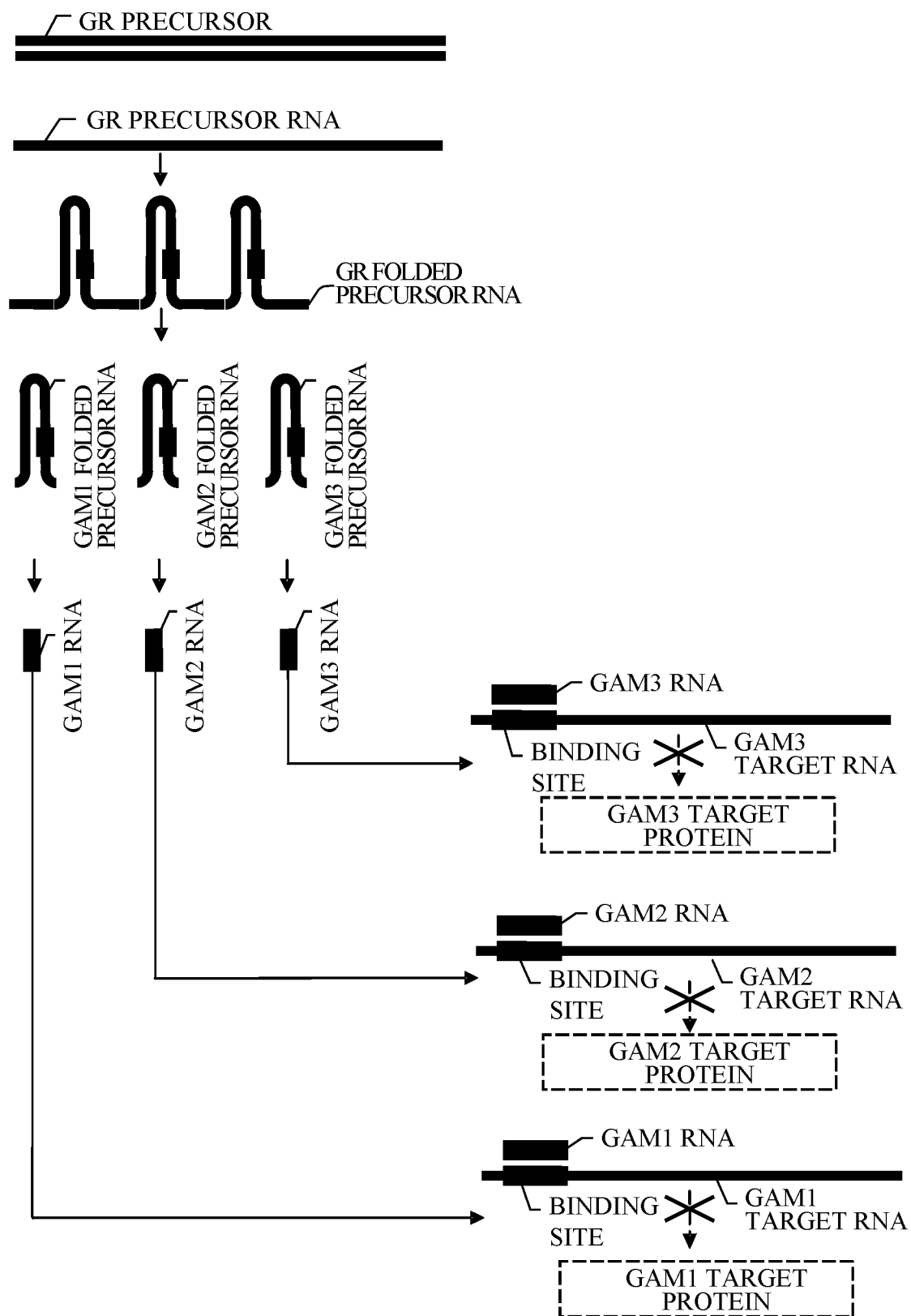


FIG. 17

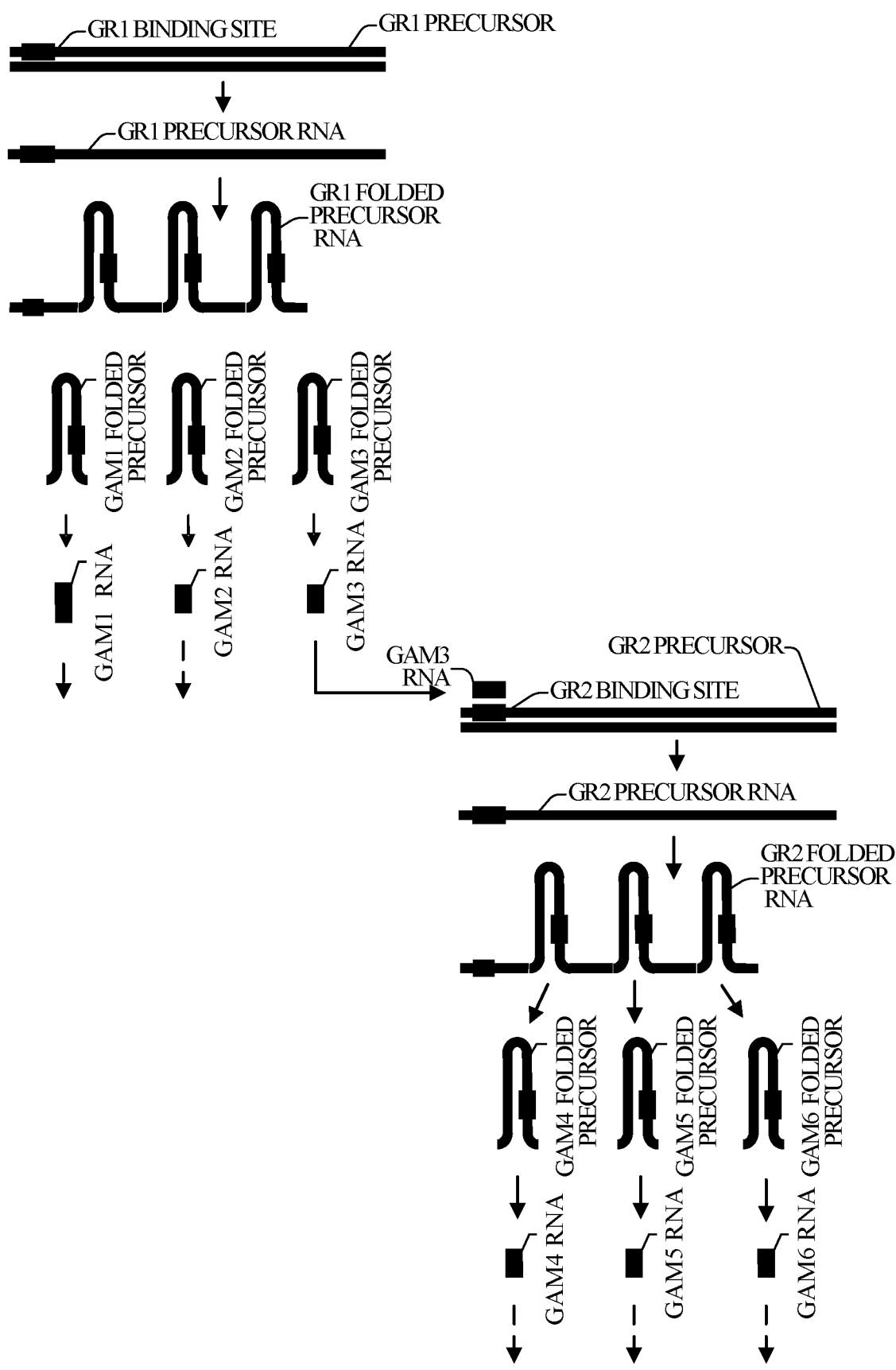


FIG. 18

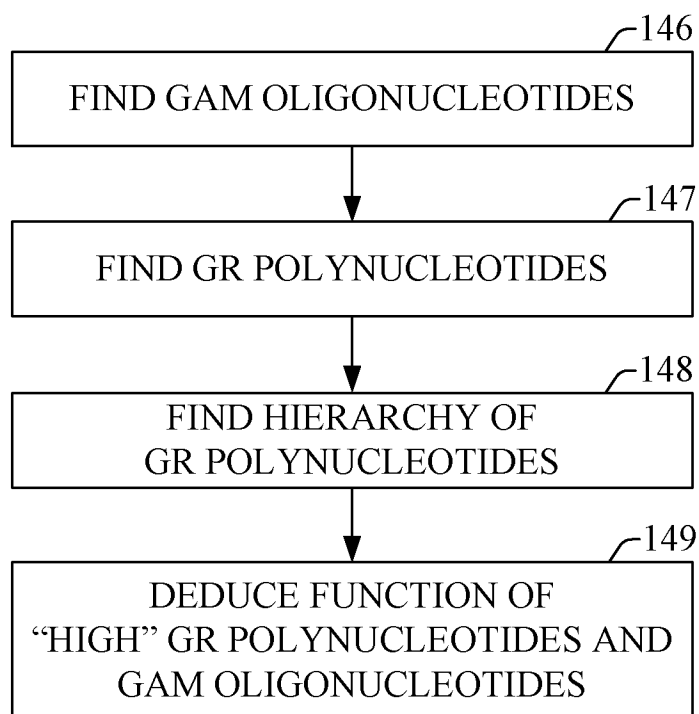


FIG. 19

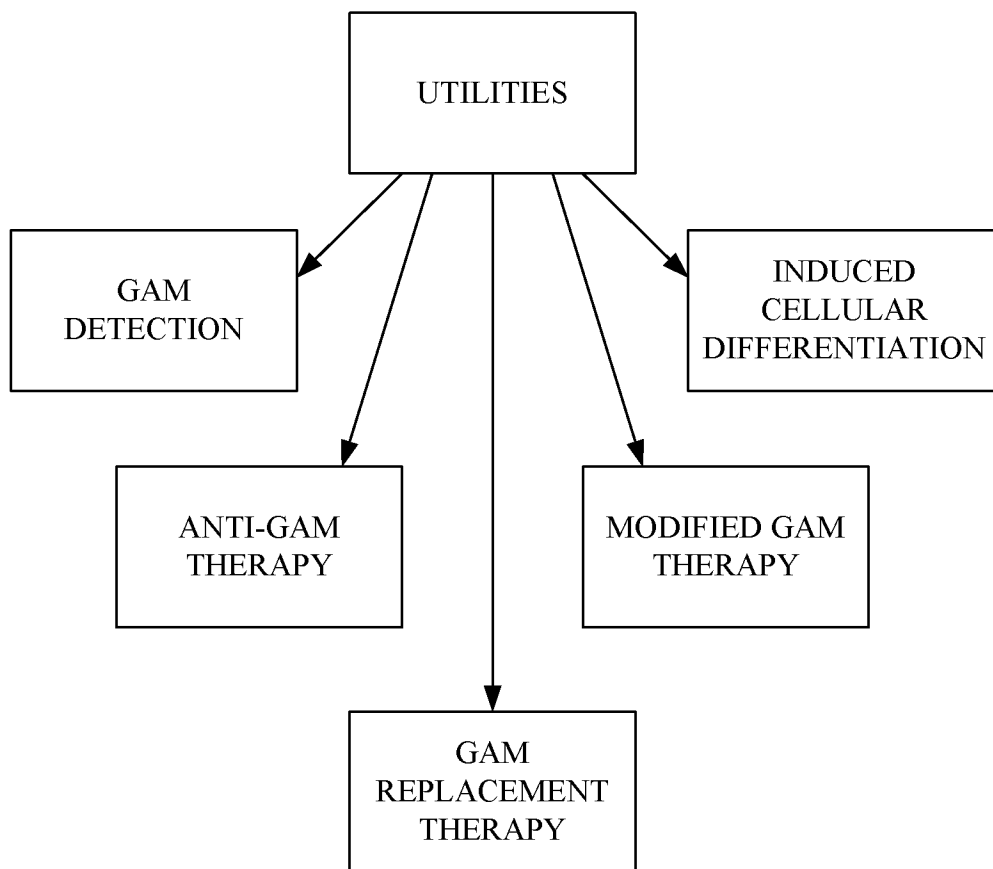


FIG. 20A

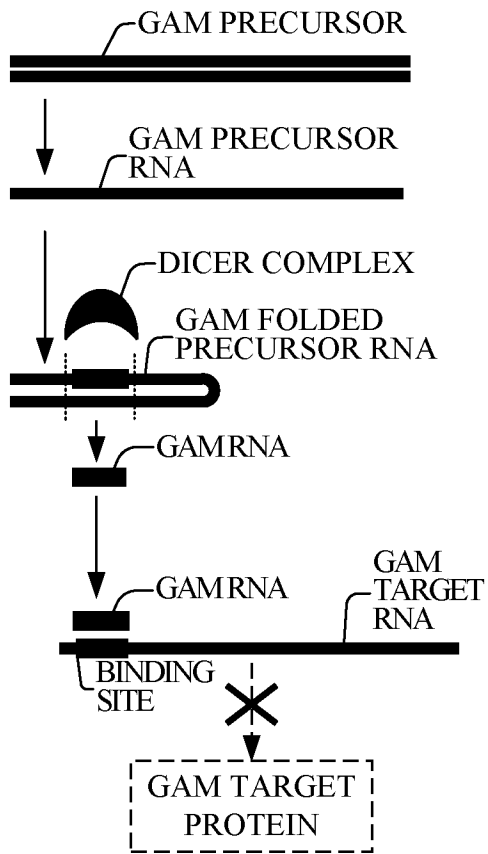


FIG. 20B

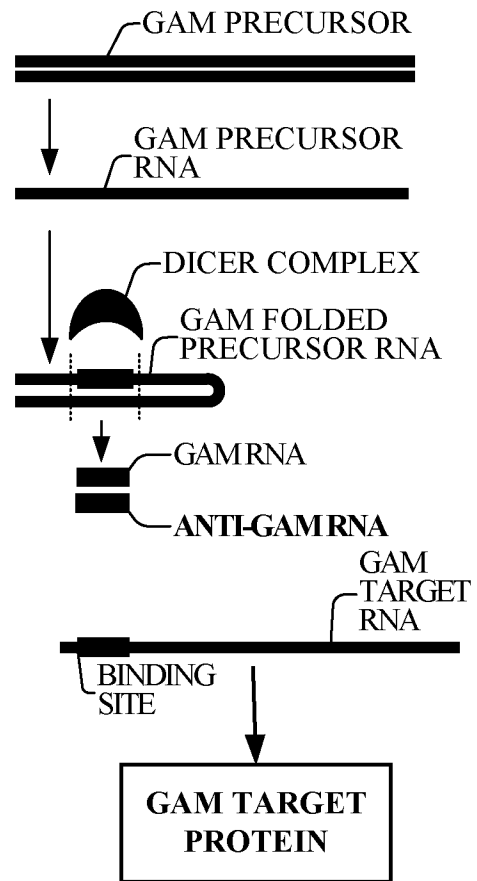


FIG. 21A

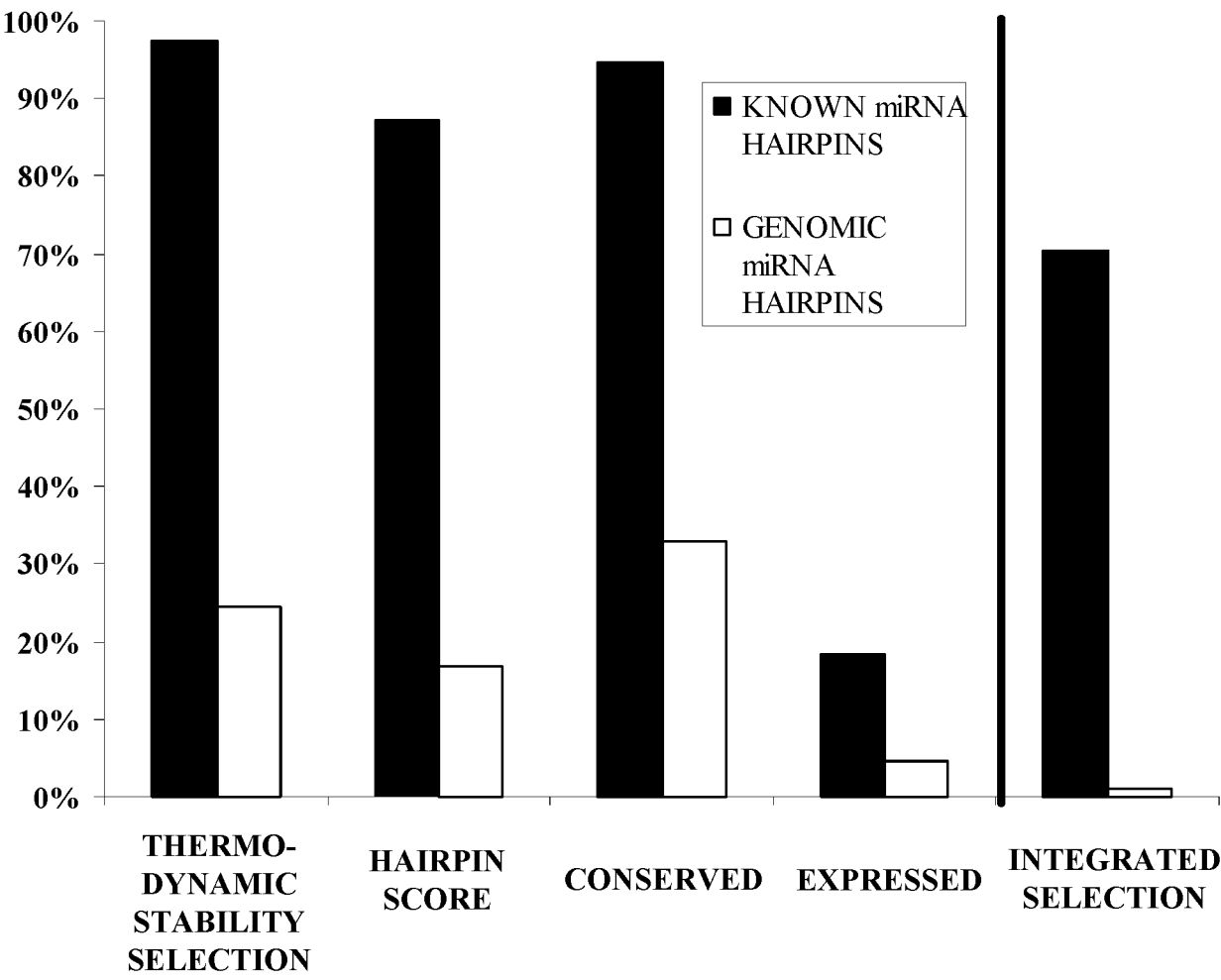


FIG. 21B

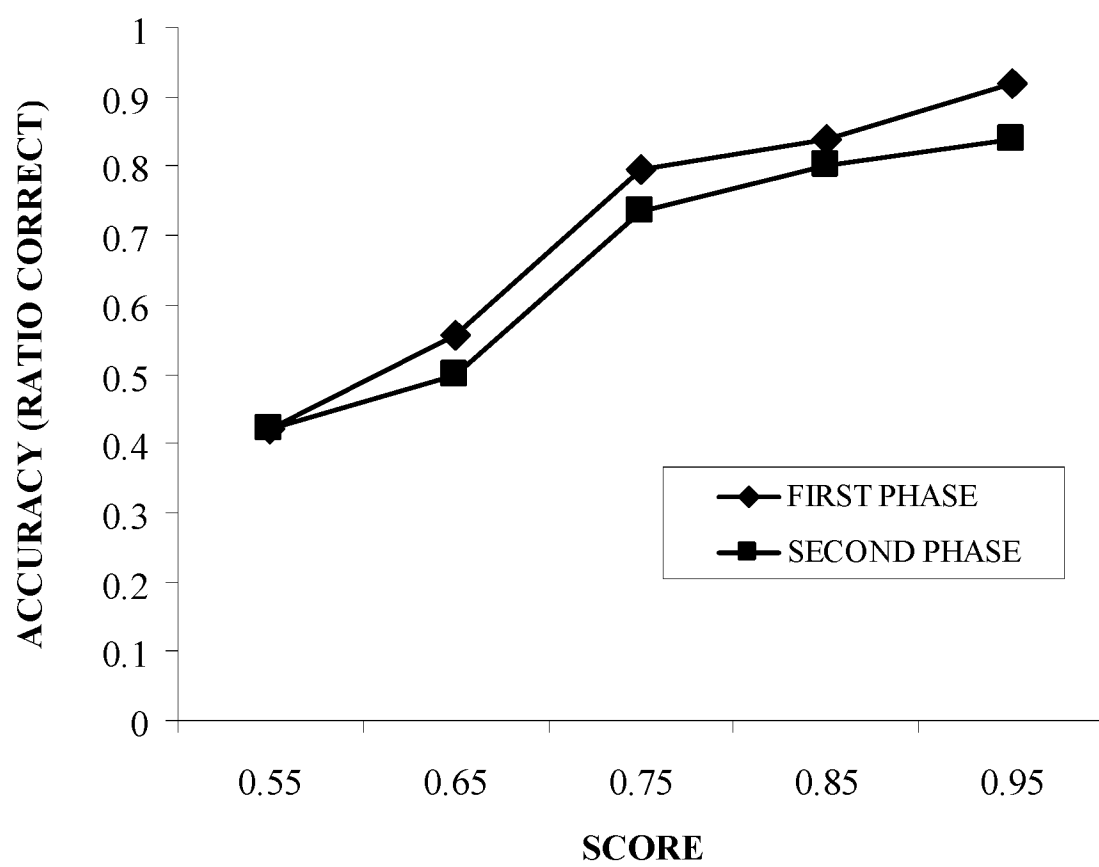


FIG. 21C

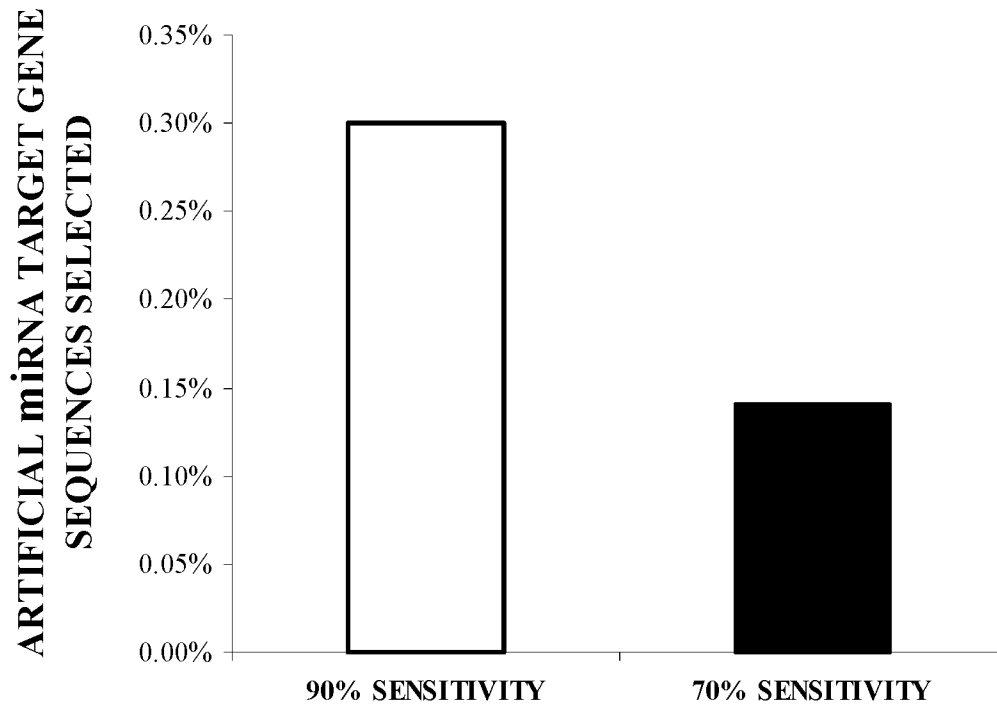


FIG. 22

ROW	PRIMER SEQUENCE	SEQUENCED SEQUENCE	PREDICTED GAM RNA	DIST- ANCE	GAM NAME
1*	AATTGCTTGAAC	CCAGGAAGTGA	AATTGCTTGAACCCAGGAAGTGA	0	25-A
2*	ACTGCACCTC	AGCCTGGGC	ACTGCACCTCAGCCTGGGCTAC	0	351661-A
3	CACCTGACCTC	CAGCCCCGAGCAACA	CACCTGACCTCAGCCCCGAGCAA	0	351946-A
4	CTAGACTGAAG	CTCCTTGAGGAC	CTAGACTGAAGCTCCTTGAGGA	0	352759-A
5	GAAGTTTGAAG	CCTGTTGTTCA	GAAGTTTGAAGCCTGTTGTTCA	0	4426-A
6	TCACTGCAAC	CTCCACCA	(TCACTGCAACCTCCACCACGCTG),(TC ACTGCAACCTCCACCAGCCT)	0	(357950- A),(352721-A)
7*	TCTAAGAGAAAG	GAAGTTCAGA	TCTAAGAGAAAGGAAGTTCAGA	0	337950-A
8	GGGCAGTGGA	GCTGGAA	GGGCGTGAGGCTGGAATGATGT	1	351996-A
9	AATTGCTTGAAC	CCAAGAAAGTGA	AATCAGTTGAACCCAAAGAAGTG	2	351874-A
10	AGCAGCCCA	GGGTTTGT	AGCAAGACCAAGGTTTGTGT	2	352083-A
11	AGGCAAGACG	GACCAGA	AGGCAGAGAGGACCAGAGACT	2	351944-A
12	AGGGAAGAAT	TAATGTGA	GGGAATAATTAATGTGAAGTC	2	353325-A
13	AGGGAAGAAT	TAATGTGAG	AGGAAAAAATAATGTGAGTC	2	352649-A
14	ATTACAGTTG	CCCATGTTT	(ATTGTTGCCATGTTTATT), (TATTCAATTGCCATGTTGTGA)	2	A),(352967- A),(352960-A)
15	CTAGACTGAAG	CTCCTTGAGG	CTGGAAGTGAAGCTCCTTGAGGCC	2	352288-A
16	TTCAGAGTGGT	TAAGTTCTG	TTCGATGGTTAAGTTCTGTCA	2	353875-A
17	TTCAGAGTGGT	TAAGTTCTGC	TTCAGAGTGTAAAGTTCTGCTT	2	351940-A
18	AGCAGCCCA	GAAGGAAGC	AGGCCAAGAAGGAAGCAGAGG	3	352496-A
19	AGTTGCCCTG	TAAGAAAAAG	AGTTGTGTAAGAAAAAGC	3	352518-A
20	ATCAGAGGGTG	GGTGCTAA	ATTAGGAGAGTGGGTGCTAAGT	3	352511-A
21	ATGTTGGGAG	AGTTTGTCACT	TGGAGGAGAGTTTGTCACTATAG	3	353484-A
22	CCCAGGAAG	TGGAGCCTGGGC	CCCGGGTGGAAGCCTGGGCTGTG	3	351990-A
23	GGGCAGTGA	GGTCCGT	AGGGCAGGAGGTCCGTCCCTTC	3	353880-A
24	GGGCAGTGA	TCTAGAC	GTGACAGTGAATCTAGACAGAC	3	352810-A
25	TCAAGCTCATTC	CACTAAA	CTCAGCTCATCCACTAAATCCC	3	353184-A
26	TGGAAGAATT	GGTGTATGTT	GGAATGGTGGTTGTATGTTG	3	353855-A
27	TGGAGAGTT	CCATATTTTG	TGATAGATCCATATTTTGGTAA	3	352004-A
28	TGGAGAGTT	GTTGTACAGT	TGGGTTTTGTTGTACAGTGTA	3	353160-A
29	TCACTGCAAC	CTCCACC	TCACTGCAACCTCCACCCTCCG	0	353856-A

FIG. 23A



FIG. 23B

N2
 5' G A CAGT C--- G C--- CC
 3' CCC TG GGAA GGC GGGATT TC CAGGG CCCCTT \

N3
 5' AC- TA ACA --- - --- AG
 3' CTC CTGTTG GCATA GGC GTG AAGG CGGC T

MIR23
 5' -- C GTGACT T
 3' ACC TAGGGACCGT AC ACTAAA A

GAM7617
 5' - CACT ----- T A ACA -- - G- ----- -GG
 3' GGTG CGCT GCA GAT GG GA GGT GCATCT C TAGCT CTTCTTT A

GAM252
 5' AACA ATTG TGAT T
 3' TCTCT AGGTGCAGAGCTTAGCTG GTGAACAG TGG \

N4
 5' GGG A G AGCGC G A TT G
 3' TG CA TTAAGTTGG TG GGCAG GGC GCT A

N0
 5' GGTCAAATGTATTGAAAGTTGCAAAAATCTTCTTACAAA
 3' AAACAAAACCAATGCATCACCTAAGTGTGTGAAATCA

N6
 5' TG -- C -- GG T G T
 3' GGC TG A GCGGG GGG CG GC TTCGGAG AGC C

MIR24
 5' G G A TA TCTCAT \

N7
 5' - AT T AAA AG --- - T
 3' TAGC AGCT TGTG ACGC GCCTG TACA GCC TG C G

FIG. 23C

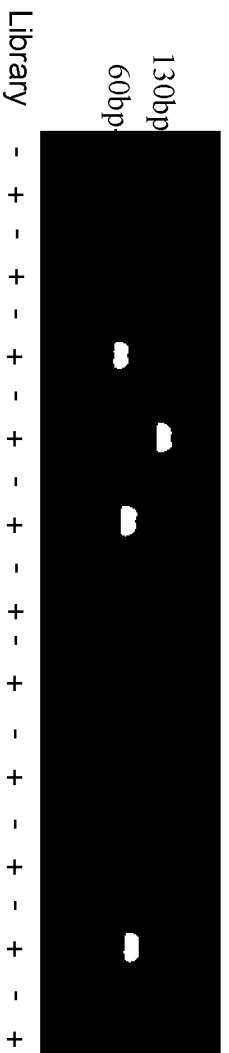


FIG. 24C

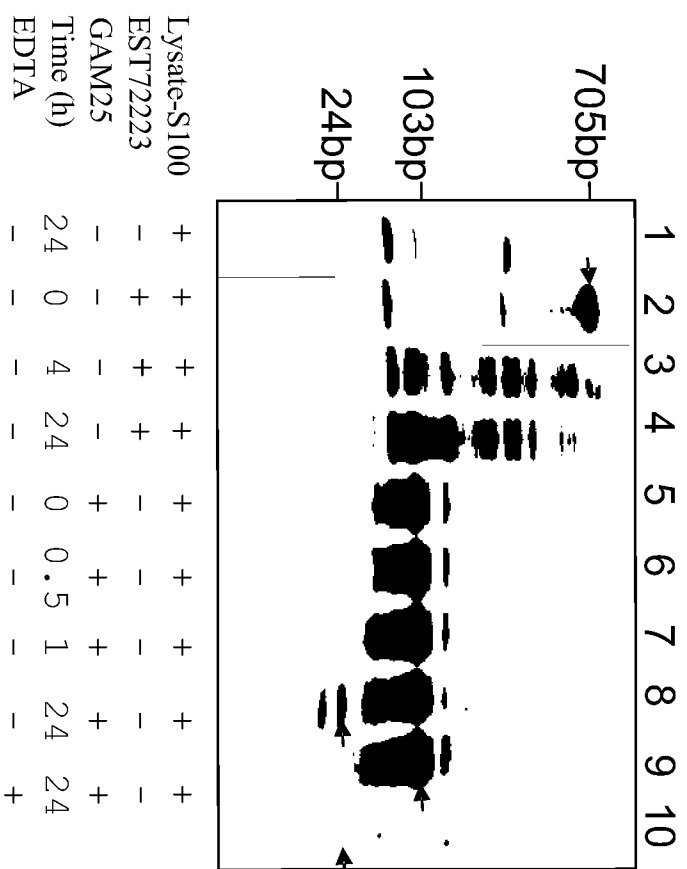


FIG. 24D

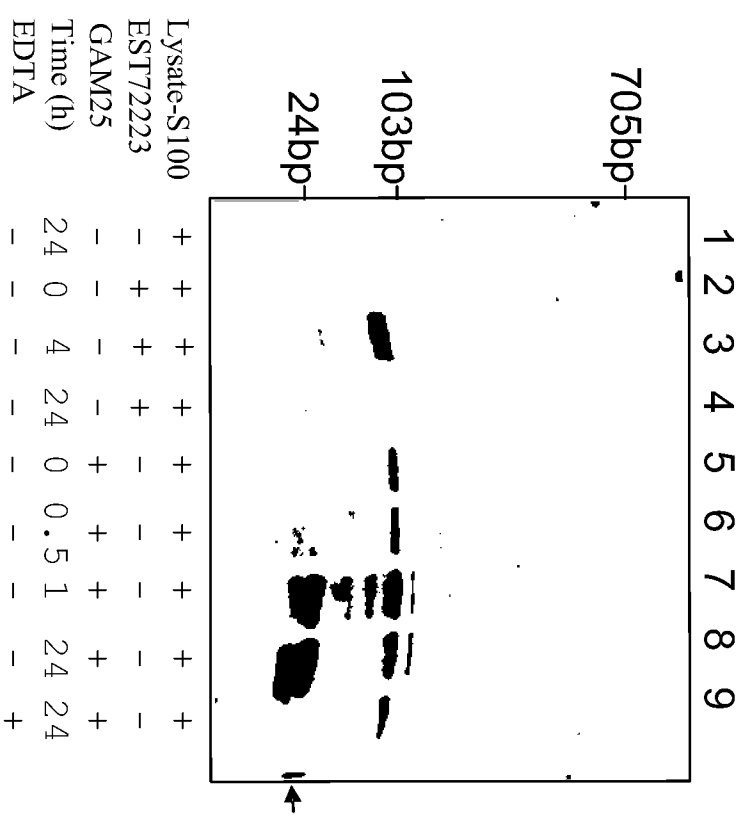


FIG. 25A

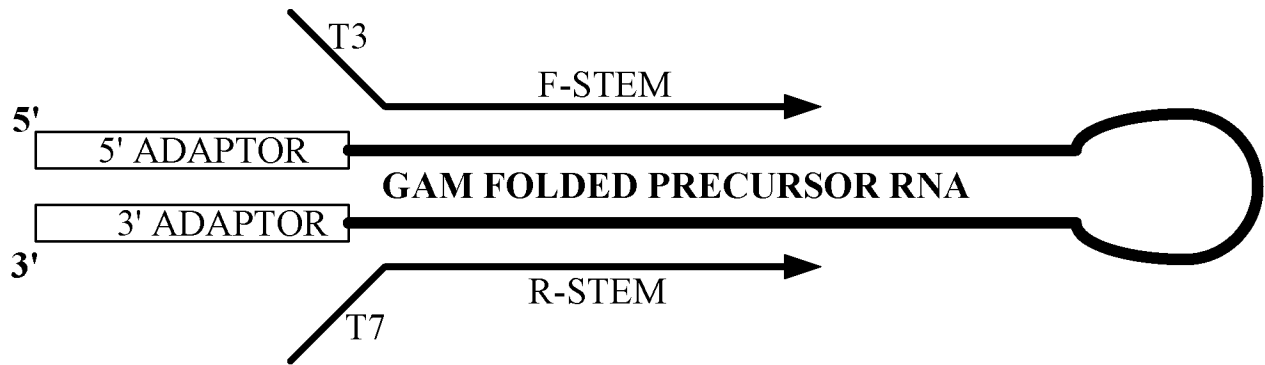


FIG. 25B

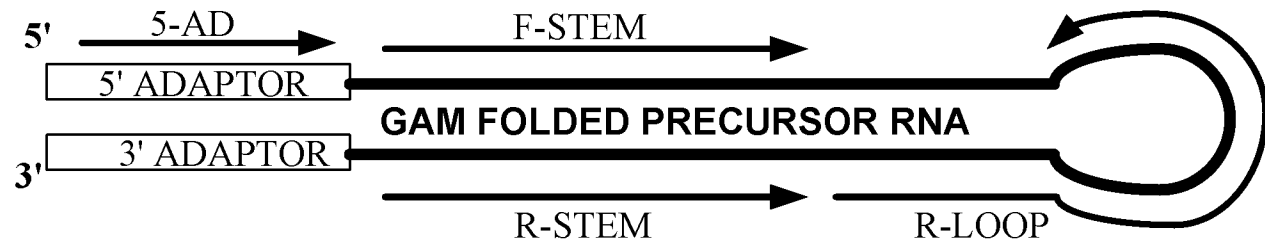


FIG. 25C

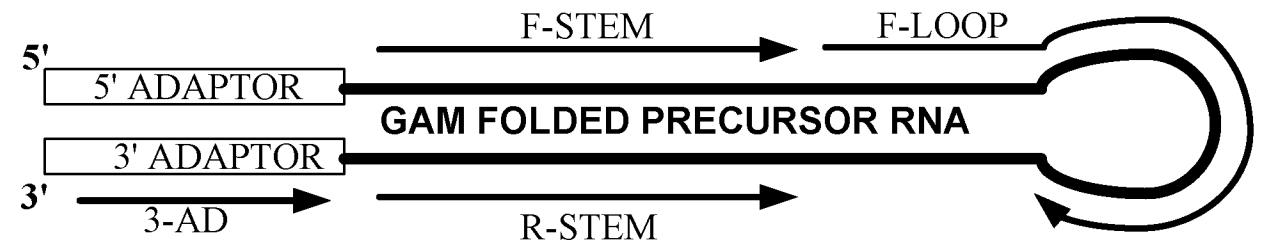


FIG. 25D

PRE #	PREDICTED PRECURSOR SEQUENCE	PRIMER1 TYPE/NAME	PRIMER1 SEQUENCE	PRIMER2 TYPE/NAME	PRIMER2 SEQUENCE	METHOD	OBSERVED SEQUENCE	GAM NAME
1	AATGCTGAGTCCT GTGAGTCTTCCTA GCAAATCAAATCT GGAAGGGGTCCTG AGGACTCCAGCAT	F STEM 1 3	GAGTCCTG TGAGTCTT CCTAGC	R STEM 1 3	TGCTGGAGT CCTCAAGA CC	A		
2	TGAGCCCTCAGCC CTCATGGCTTTC CGATGCTCACC GG TGCAGAGGAGCC AGCTGGGGAGCCT	R LOOP 2 1	AAAGCCAT GAGGGCTG AGG	R STEM 2 1	GTGAGCAT CGGGAAAG CCA	B		
3	ACTGTTGGTCTTC TGTTTAGCCAITTA TTCTCAGTTCTGT GCAGGAGTGAGCT GAAACAAAGTTGT ATAGCCCCAGAGA GTGAGAAGCTGCA TTTCATGTCTCCC AACAGT	F STEM 3 3	TTCTCAGT TCGTGCA GGAGTG	R STEM 3 3	CTTCTCACT CTCTGGGC TATAC	A		

FIG. 26A

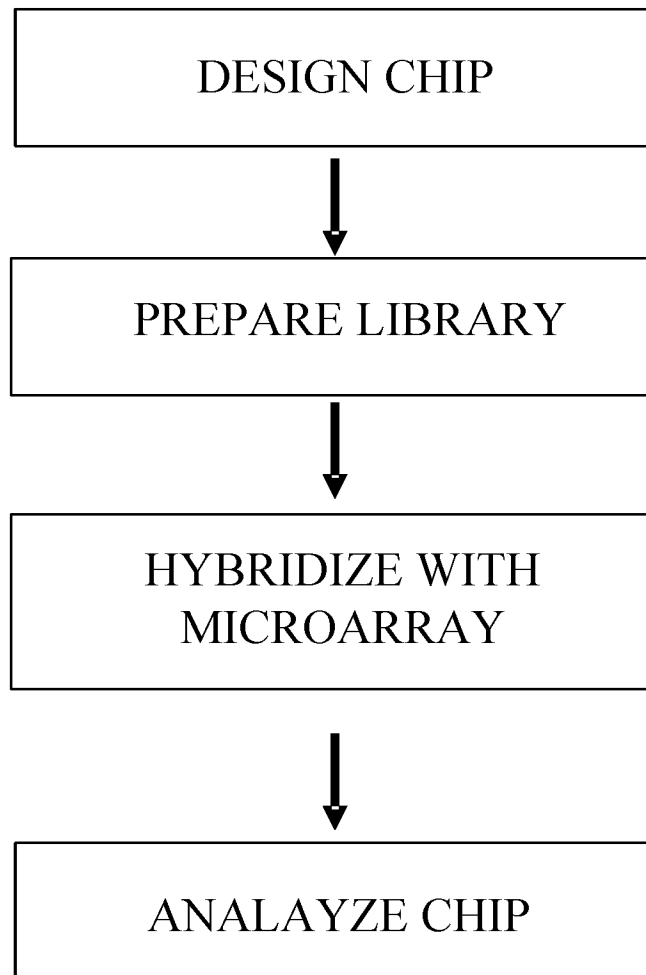


FIG. 26B

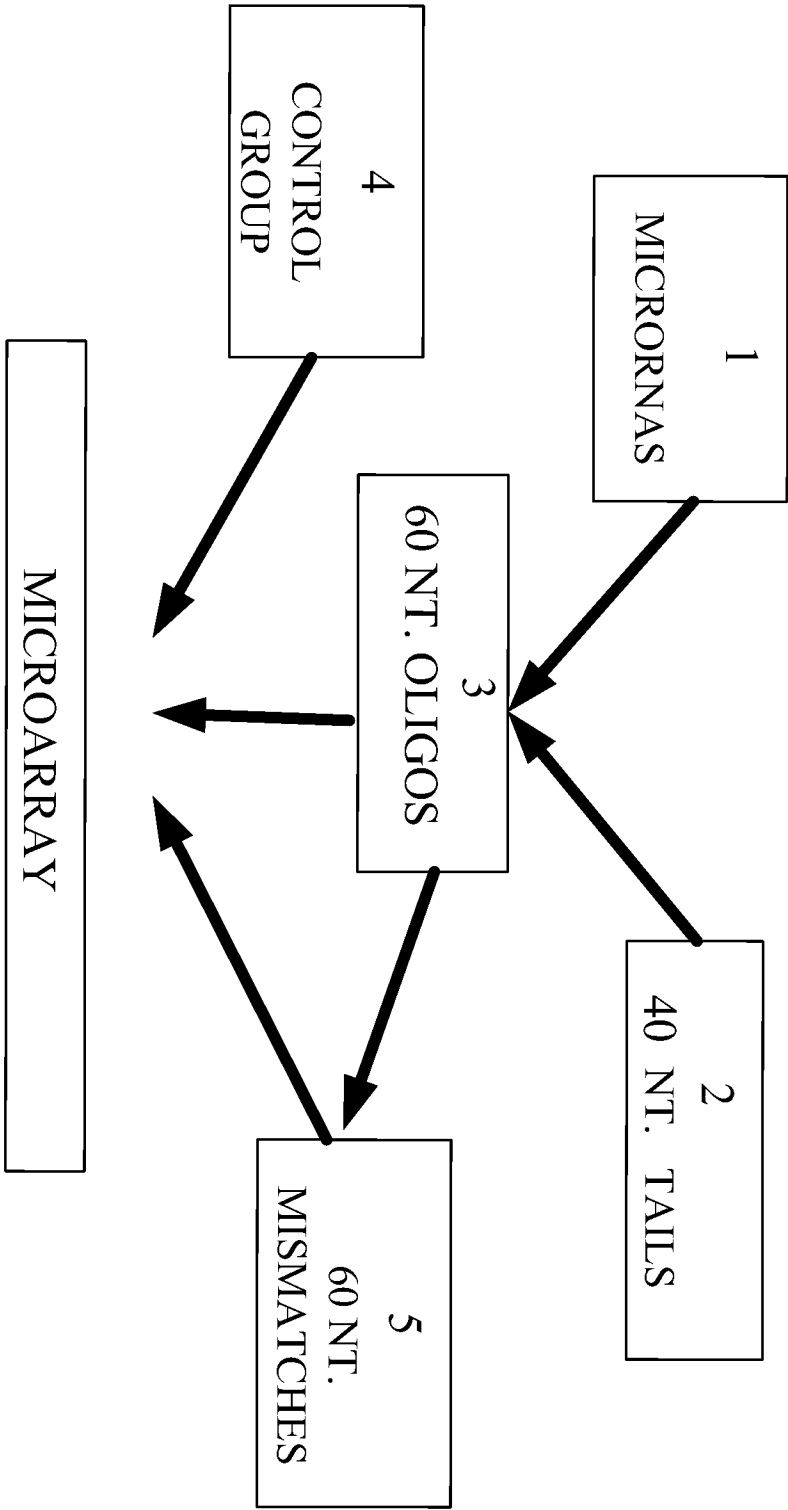


FIG. 26C

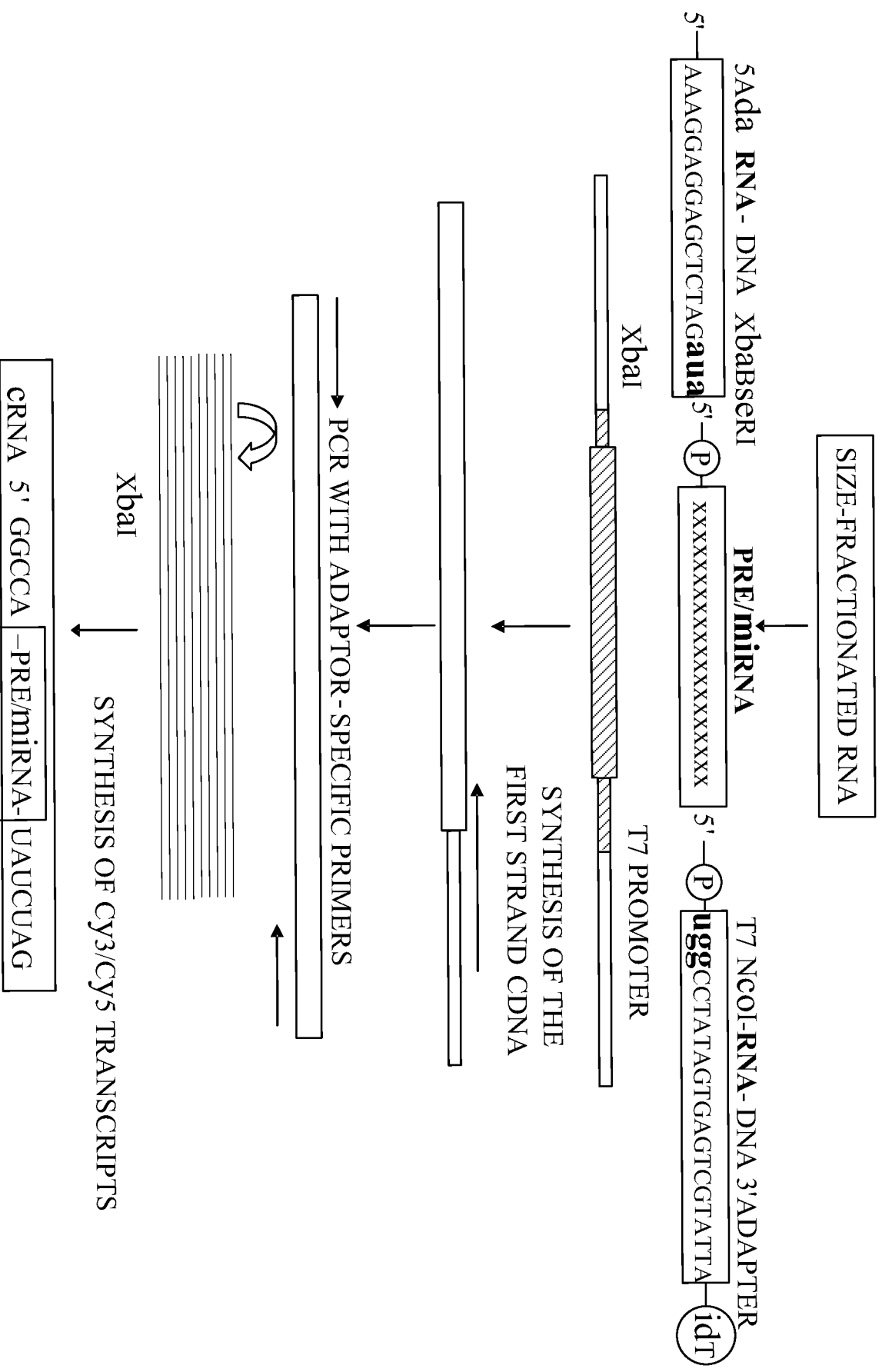


FIG. 27A

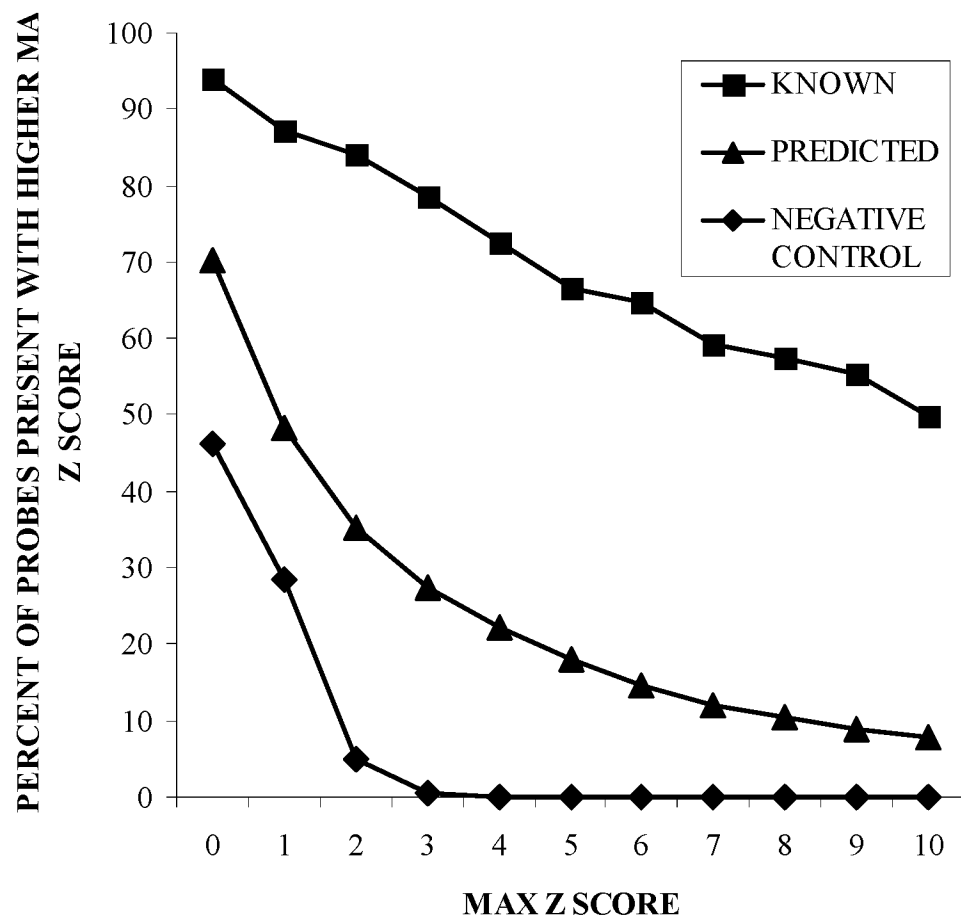


FIG. 27B

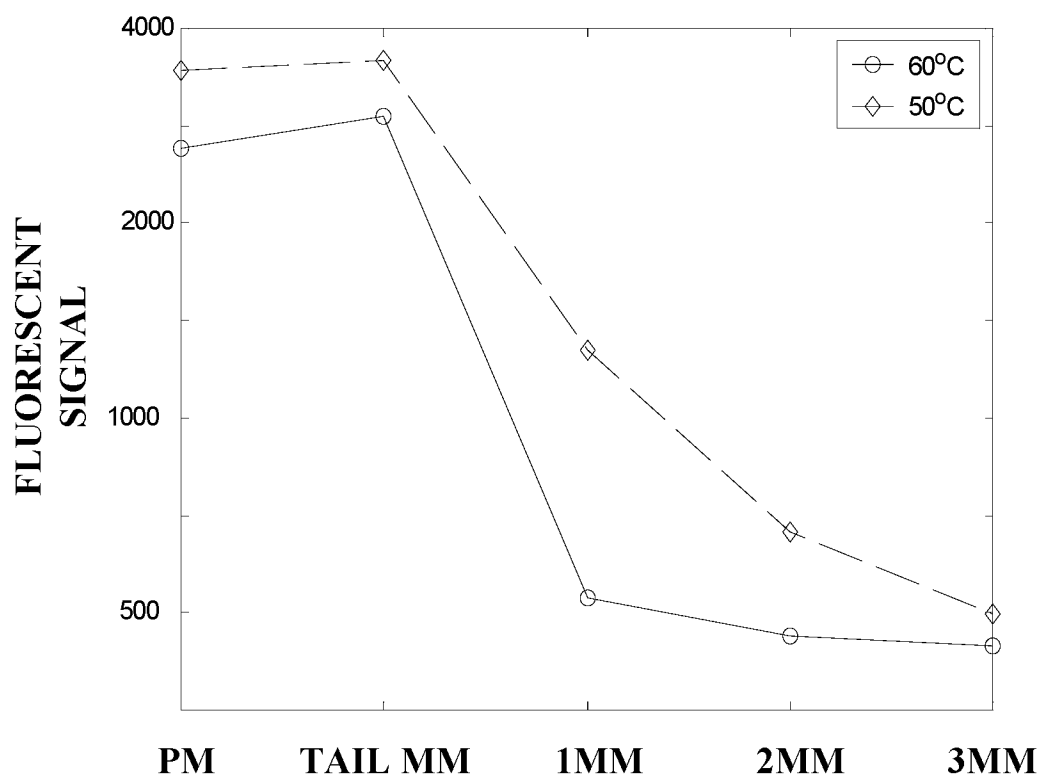


FIG. 27C

MIRNA NAME	HELA	BRAIN	LIVER	THYMUS	TESTES	PLACENTA	REFERENCE
HSA-MIR-124A	1879	65517	7025	3099	2672	2498	1,3
HSA-MIR-9	642	42659	3504	4455	4485	2313	2,3
HSA-MIR-128A	2015	27701	4940	4876	5166	2495	3
HSA-MIR-129	503	22573	1175	2213	5364	2017	3
HSA-MIR-128B	1168	21969	3954	4819	5383	2027	
HSA-MIR-122A	1051	447	65518	2644	617	570	1,3
HSA-MIR-194	501	910	65518	4737	2342	7952	3
HSA-MIR-148	413	620	38436	5250	6204	2711	
HSA-MIR-192	452	606	20650	1628	1263	2607	
HSA-MIR-96	887	3100	1477	44800	2266	5466	
HSA-MIR-150	648	1463	5295	65518	29728	5280	
HSA-MIR-205	551	615	1646	65518	2645	39072	
HSA-MIR-182	662	1944	1091	25771	2034	3683	
HSA-MIR-183	1026	1123	1286	8754	1681	2138	
HSA-MIR-204	525	3898	1757	6535	64859	6233	
HSA-MIR-10B	410	433	477	3871	23083	738	
HSA-MIR-154	438	733	1914	3309	14750	9637	
HSA-MIR-134	448	617	698	763	2250	997	
HSA-MIR-224	3233	11061	7684	32305	5377	65518	
HSA-MIR-210	844	2280	10703	6864	15288	62452	
HSA-MIR-221	625	9325	3520	20212	10608	54287	
HSA-MIR-141	696	805	1220	4063	2000	46845	
HSA-MIR-23A	1312	3492	2990	6021	11173	40076	
HSA-MIR-200C	556	595	1027	10636	1478	33532	
HSA-MIR-136	465	725	709	776	3100	8840	

1 LAGOS-QUINTANA ET AL., CURRENT BIOLOGY 12:735 (2002)
2 KRICHEVSKY ET AL., RNA 9:1274 (2003)
3 SEMPERE ET AL., GENOME BIOLOGY 5:R13 (2004)